

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER NBU 921-35P1CS			
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES			
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES			
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6007			
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22582		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLING PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>			
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION	
LOCATION AT SURFACE		778 FSL 547 FEL		SESE		35	
Top of Uppermost Producing Zone		913 FSL 497 FEL		SESE		35	
At Total Depth		913 FSL 497 FEL		SESE		35	
21. COUNTY UNTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 497		23. NUMBER OF ACRES IN DRILLING UNIT 321			
27. ELEVATION - GROUND LEVEL 5100		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 154		26. PROPOSED DEPTH MD: 10514 TVD: 10510			
28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496					
ATTACHMENTS							
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES							
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER		<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)		<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)		<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Danielle Piernot		TITLE Regulatory Analyst		PHONE 720 929-6156			
SIGNATURE		DATE 11/23/2010		EMAIL gnbregulatory@anadarko.com			
API NUMBER ASSIGNED 43047513810000		APPROVAL  Permit Manager					

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)	
Prod	7.875	4.5	0	10514	
Pipe	Grade	Length	Weight		
	Grade HCP-110 LT&C	10514	11.6		

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2540		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2540	36.0			

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-35P1CS**

Surface:	778 FSL / 547 FEL	SESE
BHL:	913 FSL / 497 FEL	SESE

Section 35 T9S R21E

Unitah County, Utah
 Mineral Lease: ST UT ML 22582

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. Estimated Tops of Important Geologic Markers:
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1431	
Birds Nest	1710	Water
Mahogany	2087	Water
Wasatch	4676	Gas
Mesaverde	7358	Gas
MVU2	8264	Gas
MVL1	8827	Gas
Sego*	9586	
Castlegate*	9635	
MN5*	10057	
TVD	10510	
TD	10514	

* The Blackhawk formation is in the Mesaverde group

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program

5. Drilling Fluids Program:

Please refer to the attached Drilling Program

6. Evaluation Program:

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 10,510' TVD, approximately equals 6,984 psi (calculated at 0.66 psi/foot).

Maximum anticipated surface pressure equals approximately 4,672 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

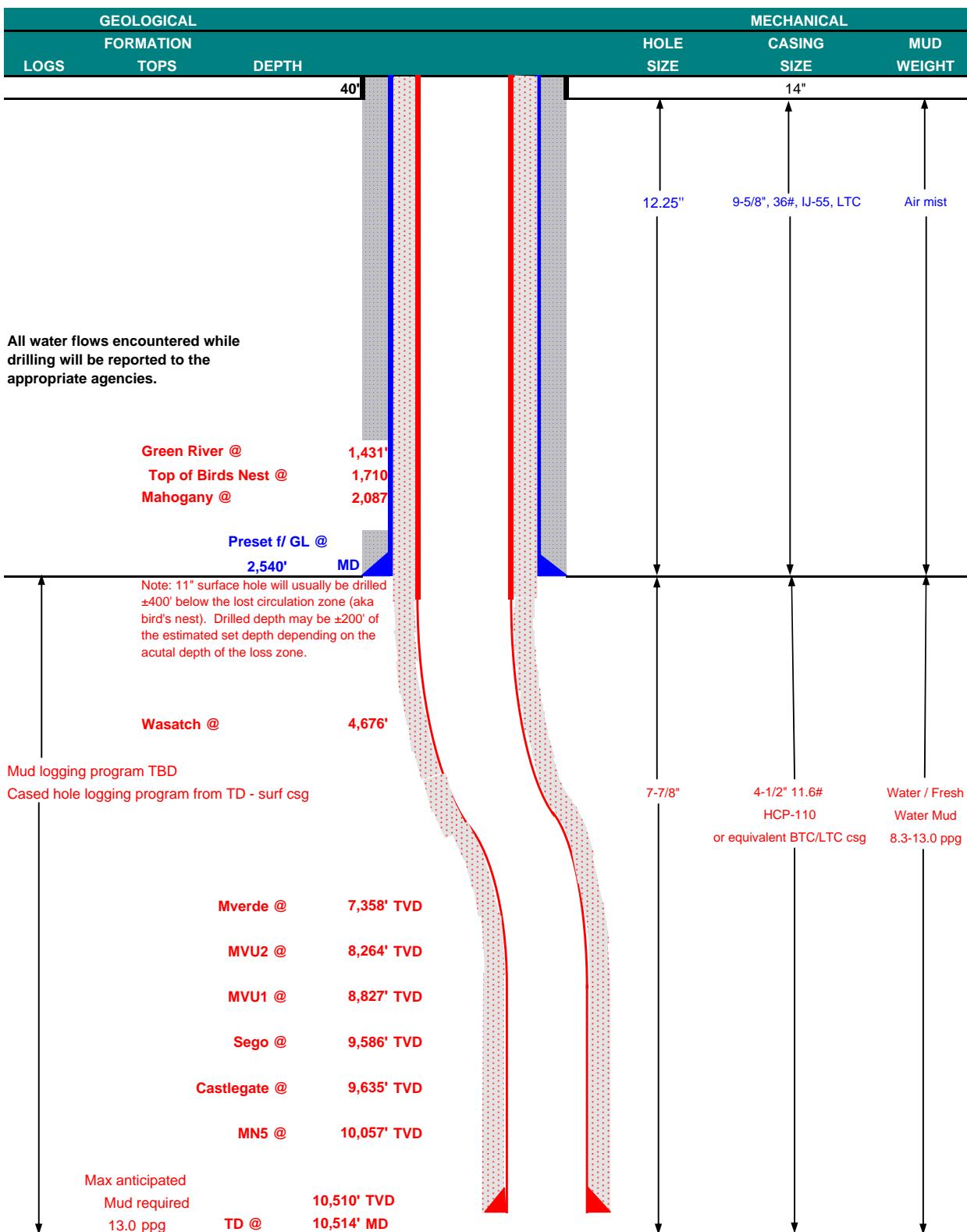
Please refer to the attached Drilling Program.



KERR-MCGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-MCGEE OIL & GAS ONSHORE LP			DATE	November 23, 2010		
WELL NAME	NBU 921-35P1CS			TD	10,510'	TVD	10,514' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5,098'
SURFACE LOCATION	SESE	778 FSL	547 FEL	Sec 35	T 9S	R 21E	
	Latitude:	39.987476	Longitude:	-109.510736			NAD 27
BTM HOLE LOCATION	SESE	913 FSL	497 FEL	Sec 35	T 9S	R 21E	
	Latitude:	39.987848	Longitude:	-109.510557			NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.						





KERR-MCGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,540'	36.00	IJ-55	LTC	0.73	1.70	6.31
PRODUCTION	4-1/2"	0 to 10,514'	11.60	HCP-110	BTC	10,690	8,650	367,000
						4.62	1.22	3.76

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.20

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 13.0 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 4,672 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 13.0 ppg)

0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 6,984 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	220	60%	15.80	1.15
		1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	330	0%	15.80	1.15
SURFACE Option 2	LEAD	2,040'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	230	35%	11.00	3.82
		500'	Premium cmt + 2% CaCl + 0.25 pps flocele	190	35%	15.80	1.15
PRODUCTION	TOP OUT CMT (6 jobs)	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
		4,174'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	310	20%	11.00	3.38
	TAIL	6,340'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,330	20%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to

2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

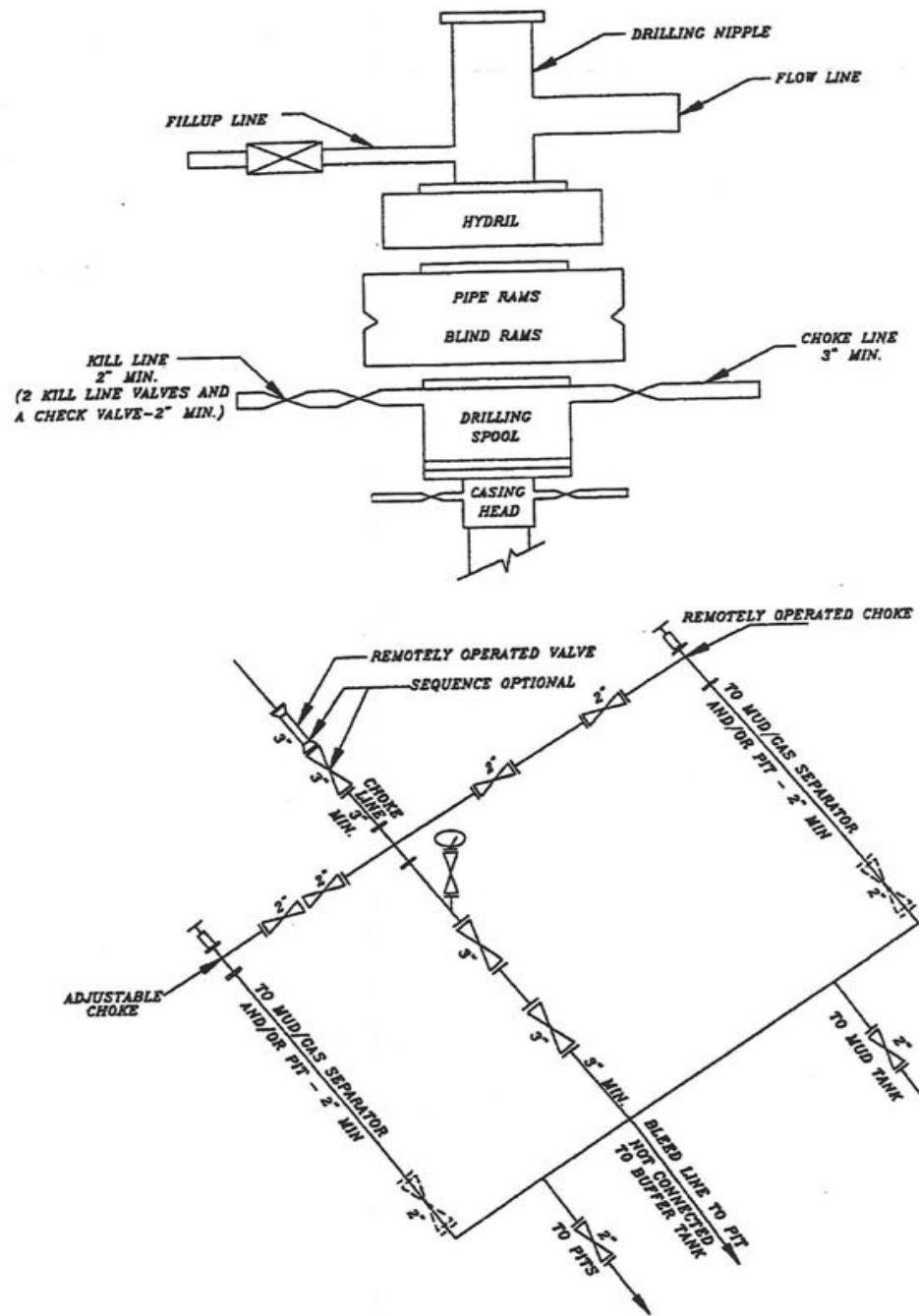
Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: John Merkel / Lovel Young

EXHIBIT A
NBU 921-35P1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.

WEST - 80.00 (G.L.O.)

Found Uintah
County Aluminum
Cap in Pile of
Stones.

N89°47'37"W - 2646.18' (Meas.)

N89°47'25"W - 2645.99' (Meas.)

Found 1"
Aluminum Cap on
5/8" Rebar. Pile
of Stones.

N00°21'17"W - 2645.28' (Meas.)
N00°03'W - 81.10 (G.L.O.)
N00°12'59"E
2703.72' (Measured to C.C.)
2702.74' (Measured to True Corner)
2.50 (G.L.O.)
164.44'
LOT 4
Found 1977
Brass Cap in
Pile of Stones.
2501.71'

S89°07'53"W - 2666.15' (Meas.)
S89°06'W - 40.39 (G.L.O.)
Found 1977
Brass Cap in
Pile of Stones.
2.19 (G.L.O.)
144.58'
LOT 3
Found 1977
Brass Cap
2543.51'

NBU 921-35P1CS (Surface Position)
NAD 83 LATITUDE = 39.987441° (39° 59' 14.787")
LONGITUDE = 109.511422° (109° 30' 41.121")
NAD 27 LATITUDE = 39.987476° (39° 59' 14.913")
LONGITUDE = 109.510736° (109° 30' 38.649")

NBU 921-35P1CS (Bottom Hole)
NAD 83 LATITUDE = 39.987813° (39° 59' 16.125")
LONGITUDE = 109.511243° (109° 30' 40.476")
NAD 27 LATITUDE = 39.987848° (39° 59' 16.251")
LONGITUDE = 109.510557° (109° 30' 38.004")

35**WELL LOCATION:
NBU 921-35P1CS**

ELEV. UNGRADED GROUND = 5099.6'

LOT 2
Bottom of
Hole
Well Surface
Position
LOT 1
778'
913'
547'
497'
N00°00'34"E (Basis of Bearings)
2612.15' (Measured) N00°03'E - 79.80 (G.L.O.)
2579.41'
99.10'
1.51 (G.L.O.)
2678.51' (Meas.)
S89°06'W - 40.59 (G.L.O.)
S89°12'W - 40.73 (G.L.O.)
Found 1977
Brass Cap
S89°14'29"W - 2688.09' (Meas.)
Found 1977
Brass Cap
S89°07'53"W - 2666.15' (Meas.)
Found 1977
Brass Cap in
Pile of Stones.
2.19 (G.L.O.)
144.58'
LOT 3
Found 1977
Brass Cap
2543.51'

1000'
500'
0'
1000'
SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

No.6028691
JOHN R.
LAUGH
PROFESSIONAL LAND SURVEYOR
REGISTRATION NO. 6028691
STATE OF UTAH
John R. Laugh
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-35P

NBU 921-35P1CS
WELL PLAT
913' FSL, 497' FEL (Bottom Hole)
LOT 1 OF SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH.



CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINEENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

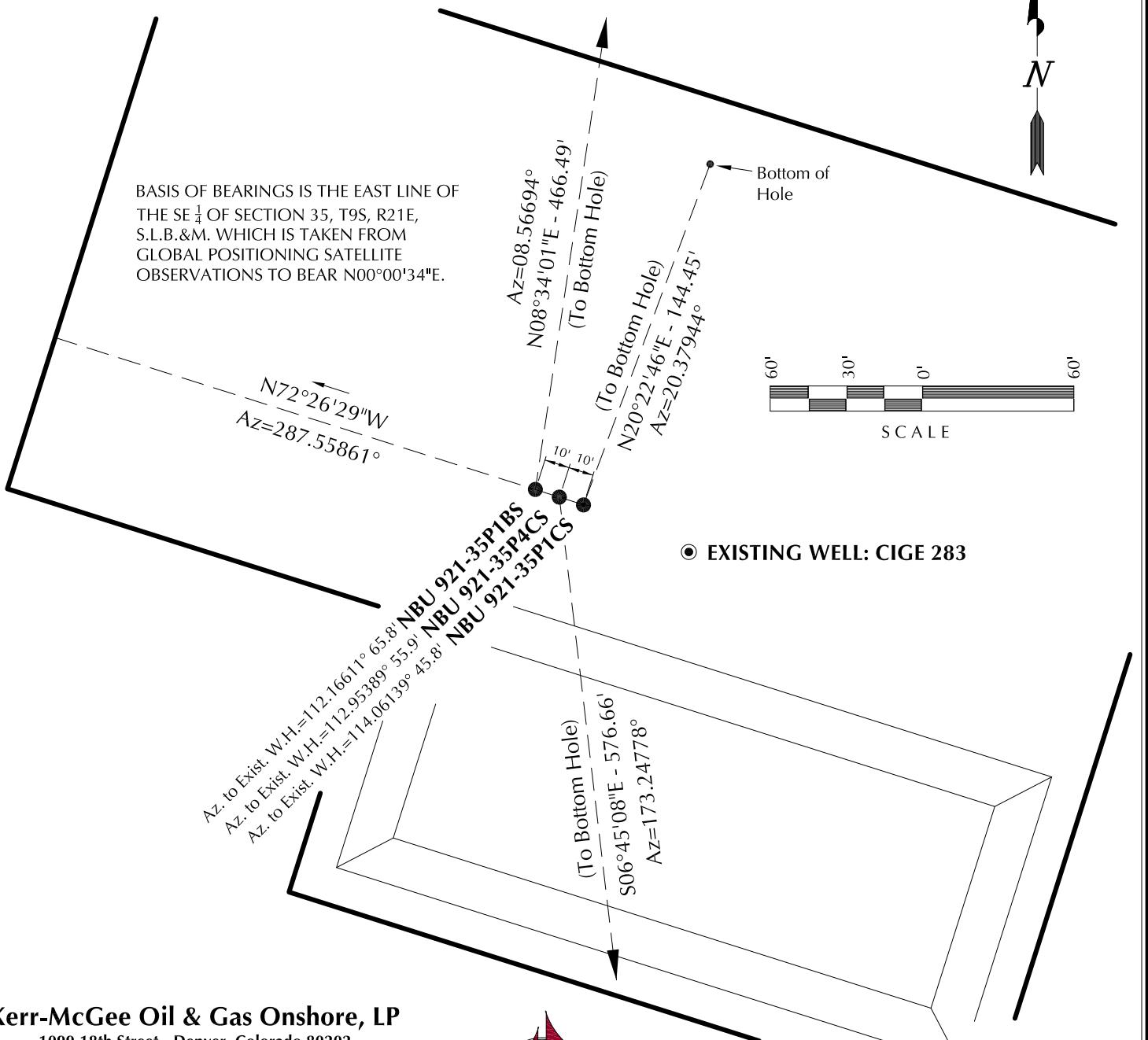
DATE SURVEYED: 9-27-10	SURVEYED BY: M.S.B.	SHEET NO:
DATE DRAWN: 9-29-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised:	3 OF 15

3

WELL NAME	SURFACE POSITION				BOTTOM HOLE					
	NAD83		NAD27		NAD83		NAD27			
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 921-35P1BS	39°59'14.848"	109°30'41.367"	39°59'14.974"	109°30'38.894"	785' FSL 566' FEL	39°59'19.406" 39.988724°	109°30'40.477" 109.511244°	39°59'19.532" 39.988759°	109°30'38.005" 109.510557°	1245' FSL 497' FEL
NBU 921-35P4CS	39°59'14.818"	109°30'41.244"	39°59'14.944"	109°30'38.772"	781' FSL 557' FEL	39°59'09.160" 39.985878°	109°30'40.369" 109.511214°	39°59'09.286" 39.985913°	109°30'37.898" 109.510527°	208' FSL 489' FEL
NBU 921-35P1CS	39°59'14.787"	109°30'41.121"	39°59'14.913"	109°30'38.649"	778' FSL 547' FEL	39°59'16.125" 39.987813°	109°30'40.476" 109.511243°	39°59'16.251" 39.987848°	109°30'38.004" 109.510557°	913' FSL 497' FEL
CIGE 283	39°59'14.603"	109°30'40.583"	39°59'14.729"	109°30'38.111"	759' FSL 505' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-35P1BS	461.3'	69.5'	NBU 921-35P4CS	-572.7'	67.8'	NBU 921-35P1CS	135.4'	50.3'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35P

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH.



CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

DATE SURVEYED:
9-27-10

SURVEYED BY: M.S.B.

SHEET NO:

DATE DRAWN:
9-29-10

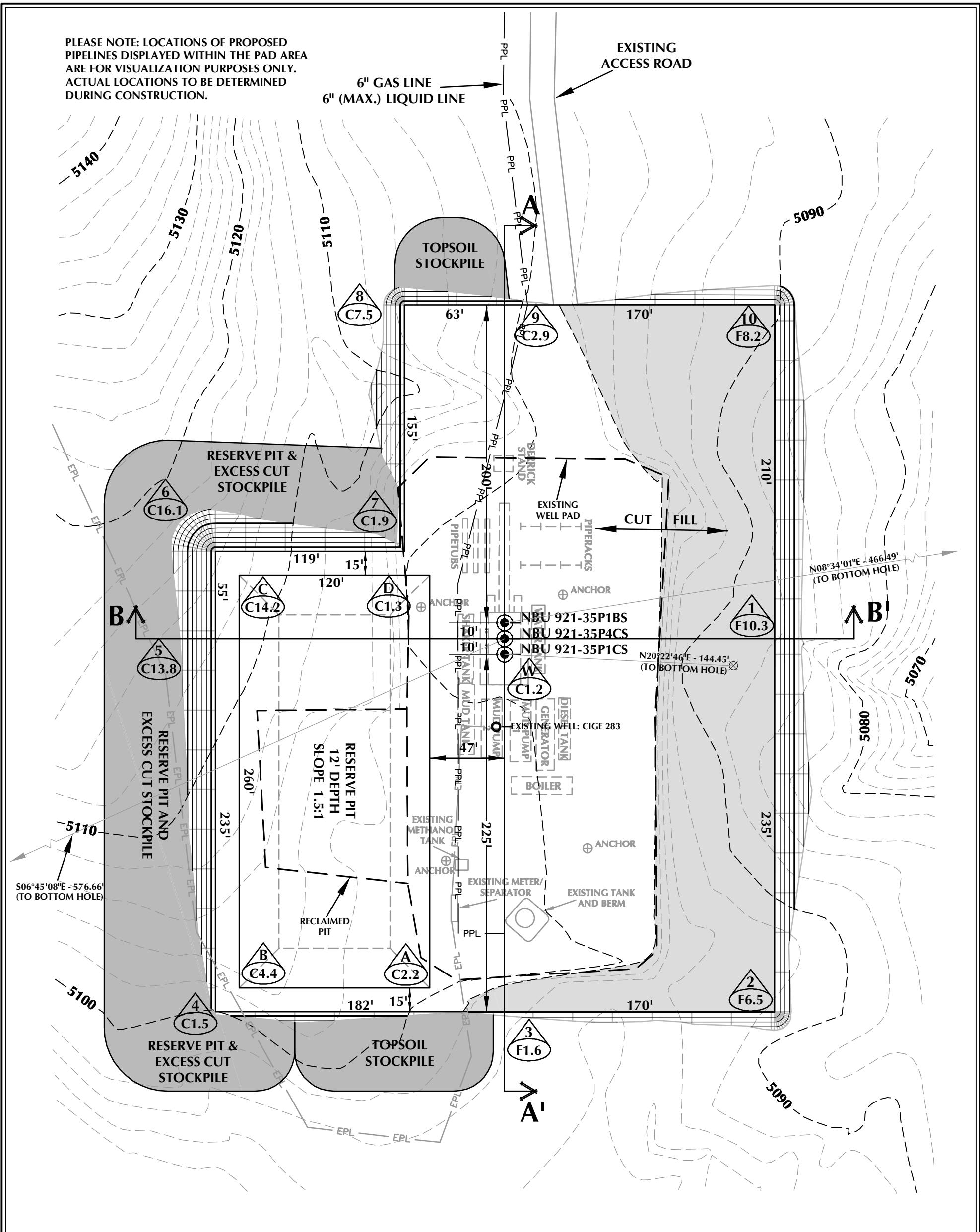
DRAWN BY: E.M.S.

4

SCALE: 1" = 60'

Date Last Revised:

4 OF 15



WELL PAD - NBU 921-35P DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5099.5'
FINISHED GRADE ELEVATION = 5098.3'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.64 ACRES
TOTAL DAMAGE AREA = 6.17 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35P

WELL PAD - LOCATION LAYOUT
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
(435) 789-1365
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' Date: 10/15/10 Sheet No:

REvised:

5 OF 15

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT

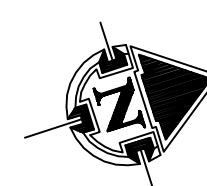
+/- 11,020 CY

RESERVE PIT CAPACITY (2' OF FREEBOARD)

+/- 42,290 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE



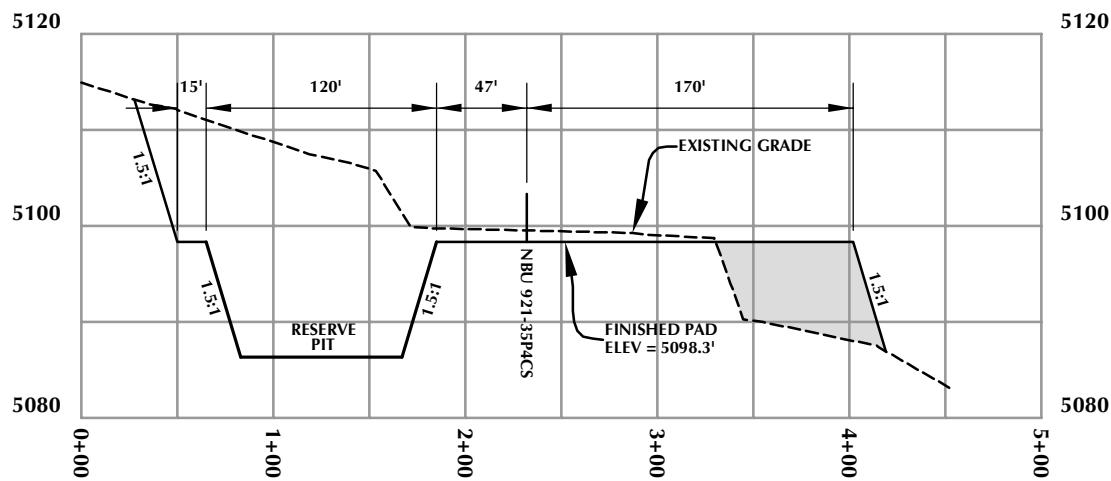
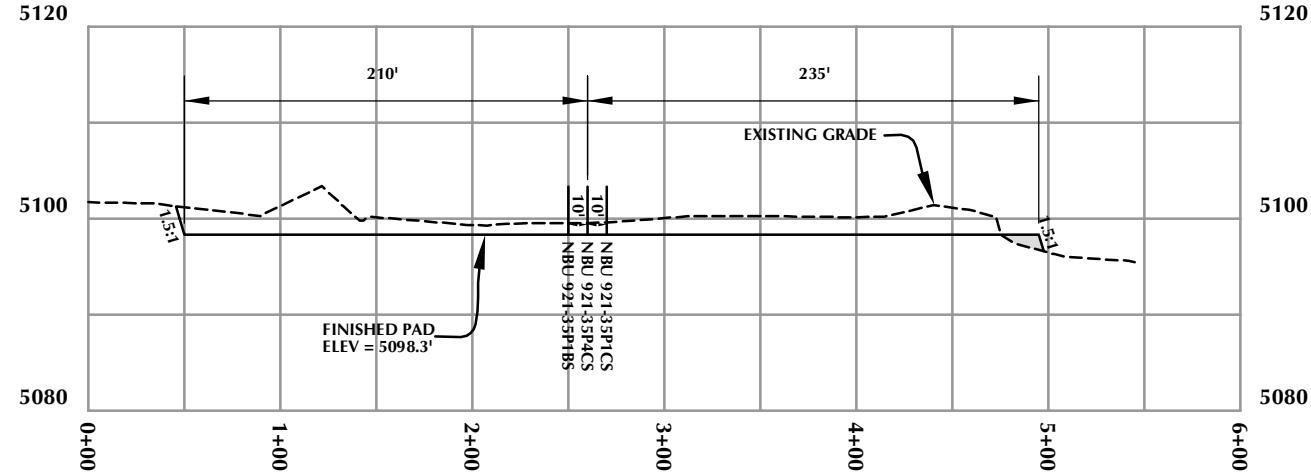
HORIZONTAL 0 30 60 1" = 60'

2' CONTOURS

Scale: 1"=60' Date: 10/15/10 Sheet No:

REvised:

5 OF 15



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35P

WELL PAD - CROSS SECTIONS
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

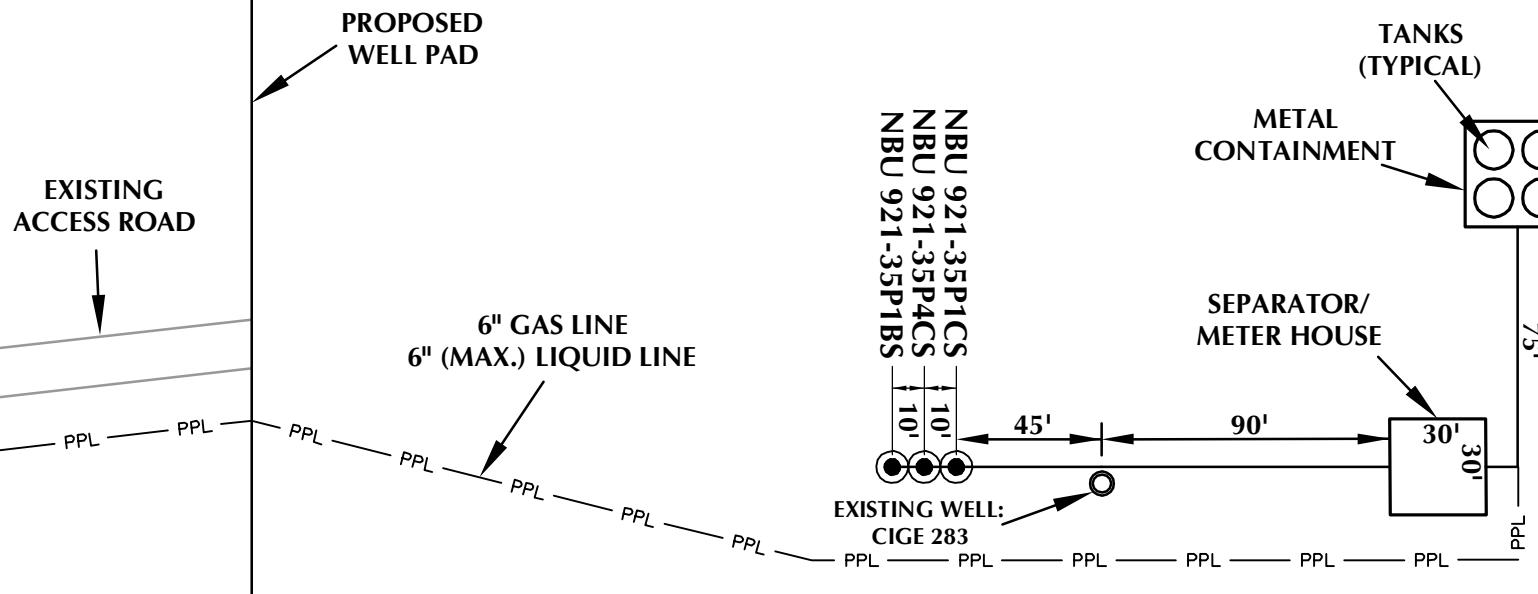
HORIZONTAL 0 50 100 1" = 100'

VERTICAL 0 10 20 1" = 20'

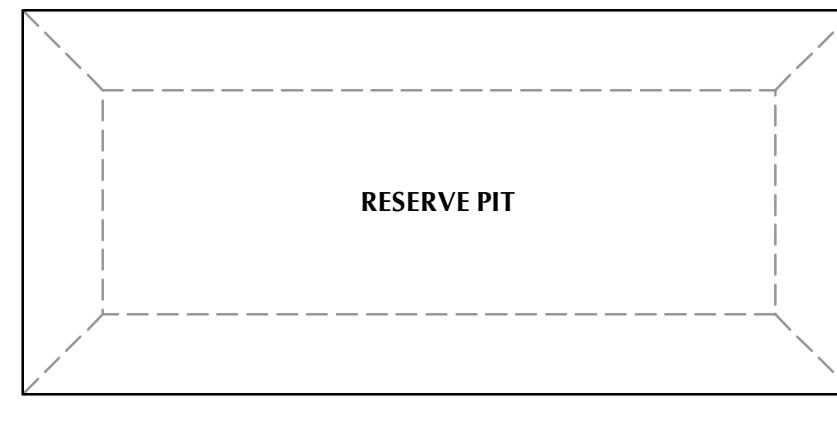
Scale: 1"=100' Date: 10/15/10

REVISED:

SHEET NO:
6 6 OF 15



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35P

WELL PAD - FACILITIES DIAGRAM
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE

HORIZONTAL 0 30' 60'
1" = 60'

(435) 789-1365
TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' Date: 10/15/10

REVISED:

SHEET NO:
7
7 OF 15

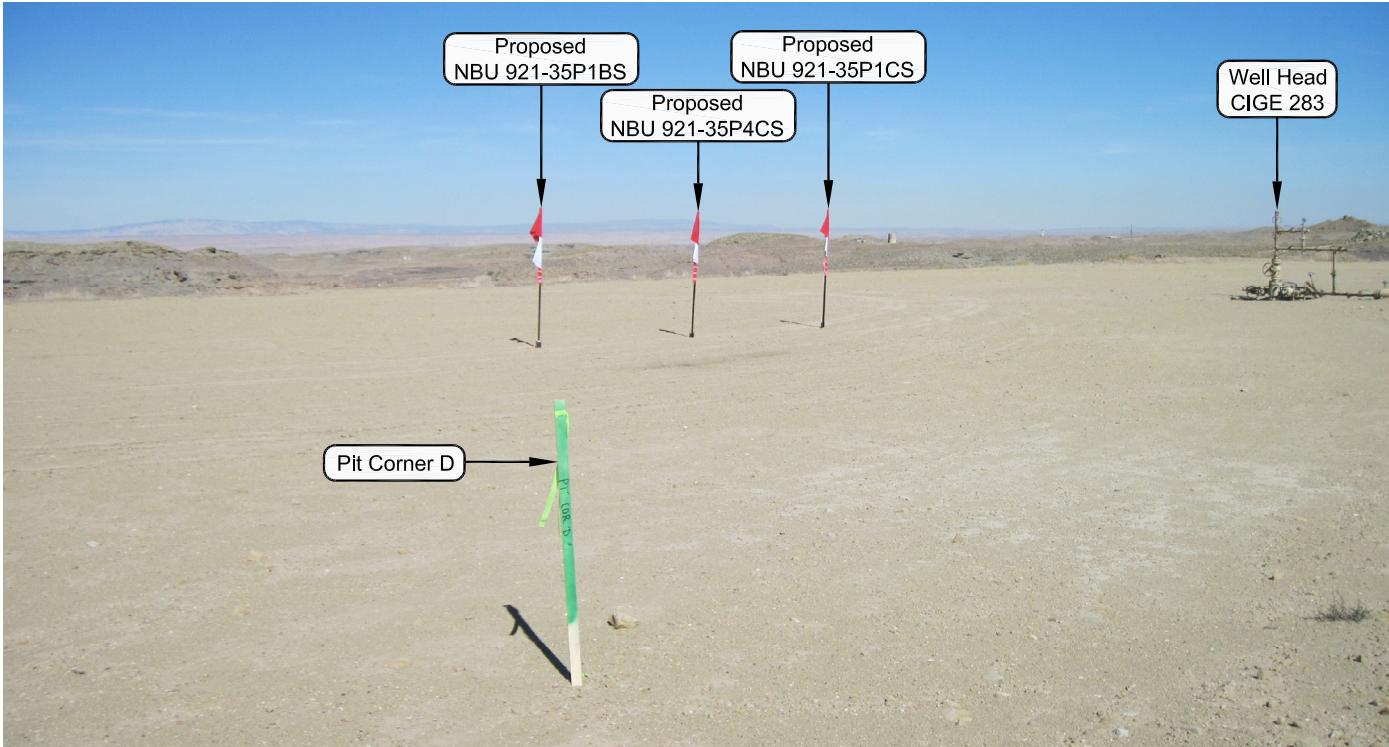


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35P

LOCATION PHOTOS

NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH.

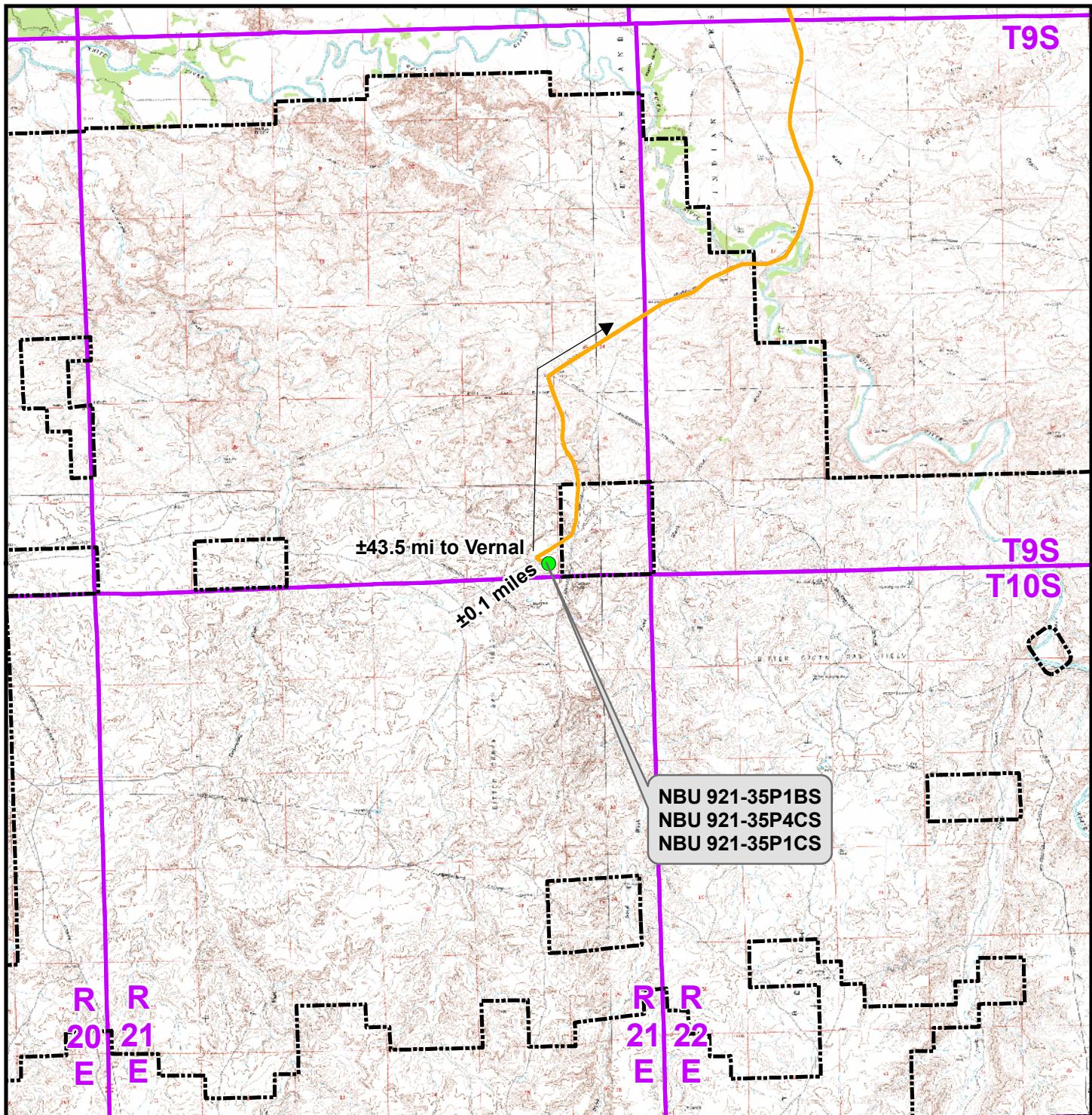


CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 9-27-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO:
DATE DRAWN: 9-29-10	DRAWN BY: E.M.S.	
Date Last Revised:		8 OF 15



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

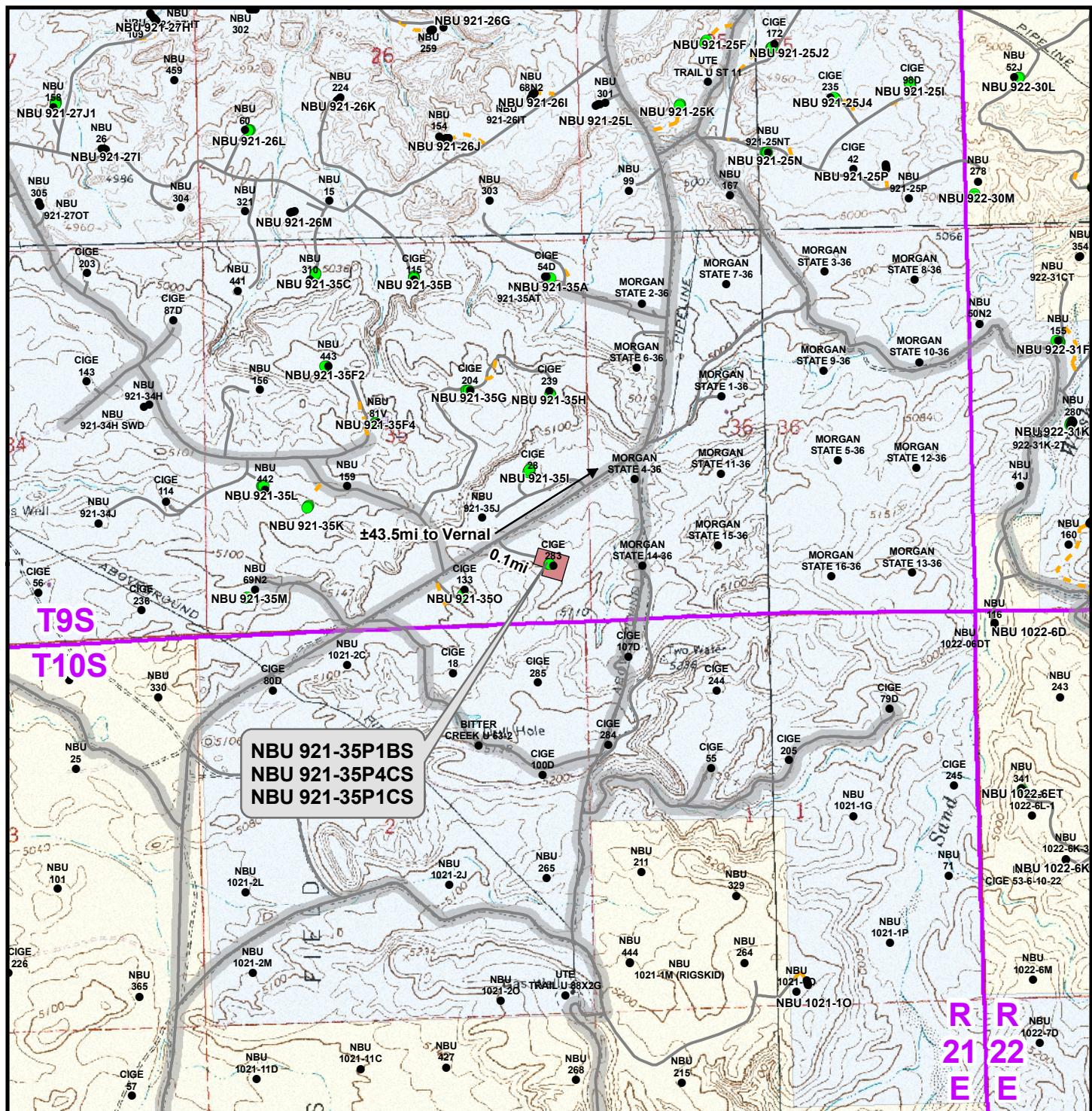
WELL PAD - NBU 921-35P

TOPO A
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 19 Oct 2010	9
Revised:	Date:	9 of 15



Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- State
- Indian Reservation
- Private

Total Proposed Road Length: ±0ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

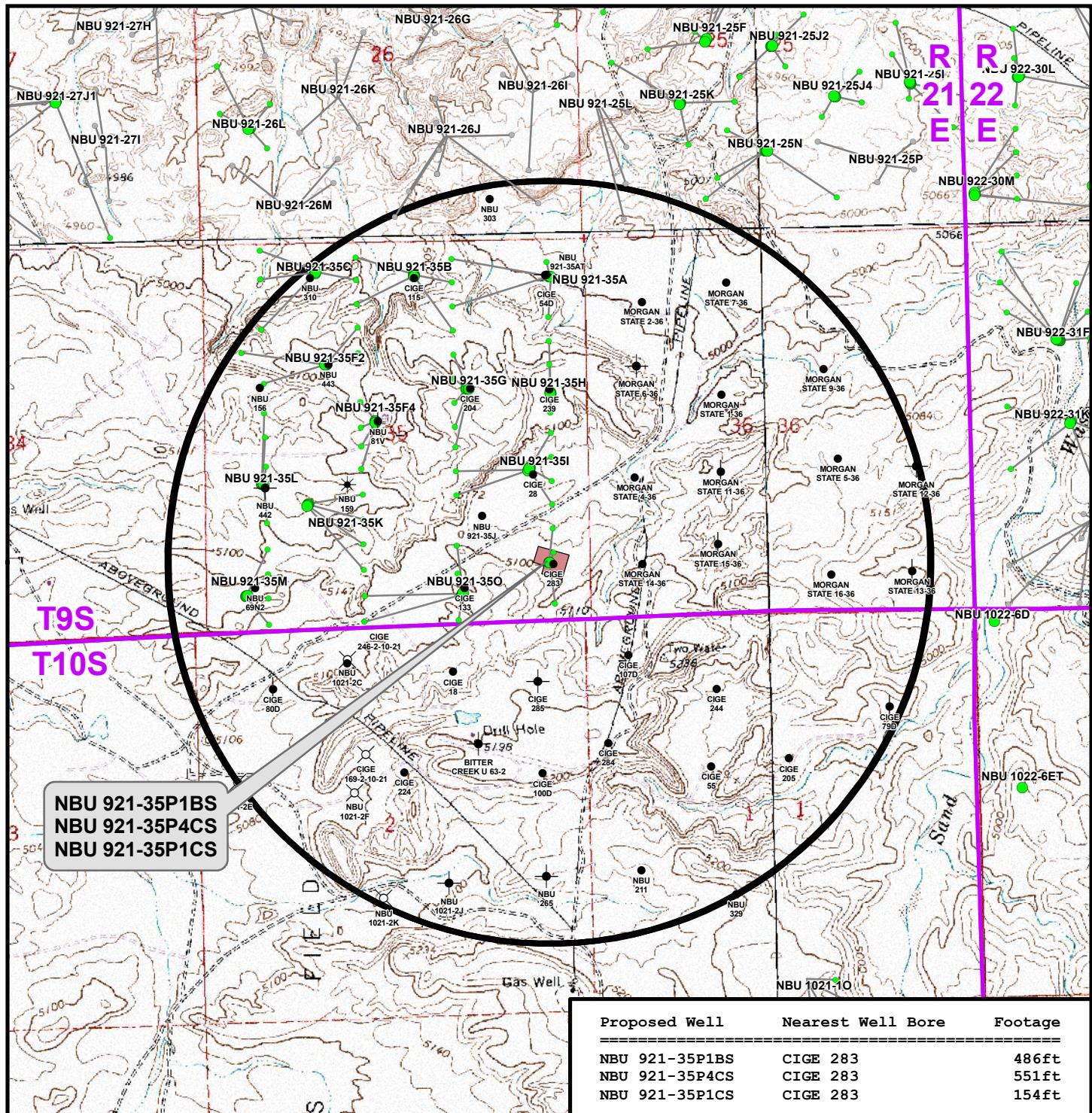
WELL PAD - NBU 921-35P

TOPO B
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 19 Oct 2010	10
Revised:	Date:	10 of 15

**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Well Pad
- Well Path
- Bottom Hole - Existing
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202**WELL PAD - NBU 921-35P**

TOPO C
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH



CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



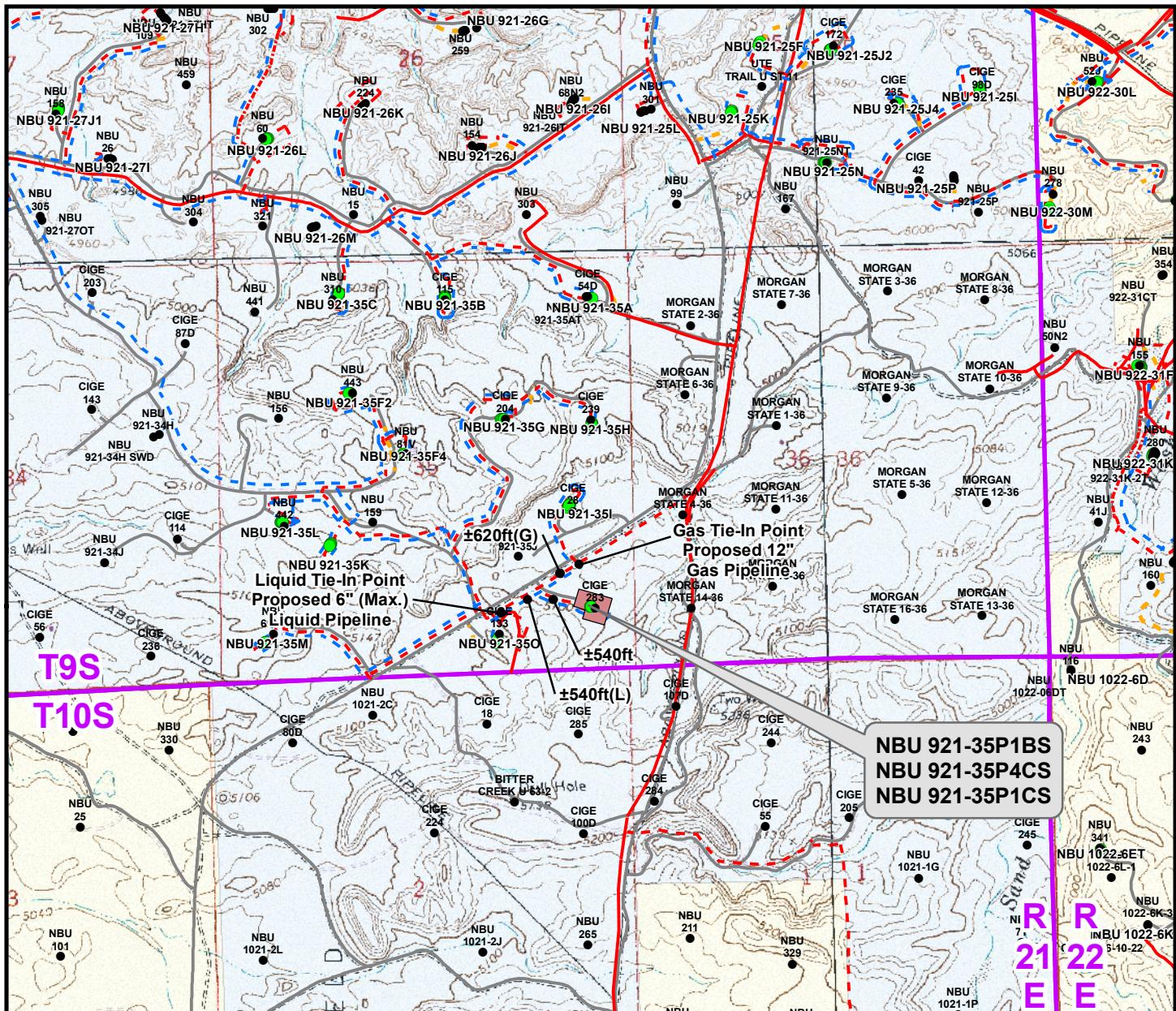
Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 19 Oct 2010	11

Revised: Date:
 Date:

11 of 15

- Producing
- Temporarily-Abandoned
- Active
- Shut-In
- (S) Spudded (Drilling commenced: Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- Plugged and Abandoned
- ⊗ Location Abandoned
- ↗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)

Drilling Operations Suspended



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±460ft
Proposed 6" (Max.) (Edge of Pad to 35I Intersection)	±540ft
Proposed 6" (Max.) (35I Intersection to 35O Intersection)	±540ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,540ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±460ft
Proposed 6" (Edge of Pad to 35O Intersection)	±540ft
Proposed 12" (35O Intersection to 35I Intersection)	±620ft
TOTAL PROPOSED GAS PIPELINE =	±1,620ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Gas Pipeline - Proposed
- - - Gas Pipeline - To Be Upgraded
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Proposed
- - - Liquid Pipeline - To Be Upgraded
- - - Liquid Pipeline - Existing
- - - Road - Proposed
- - - Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35P

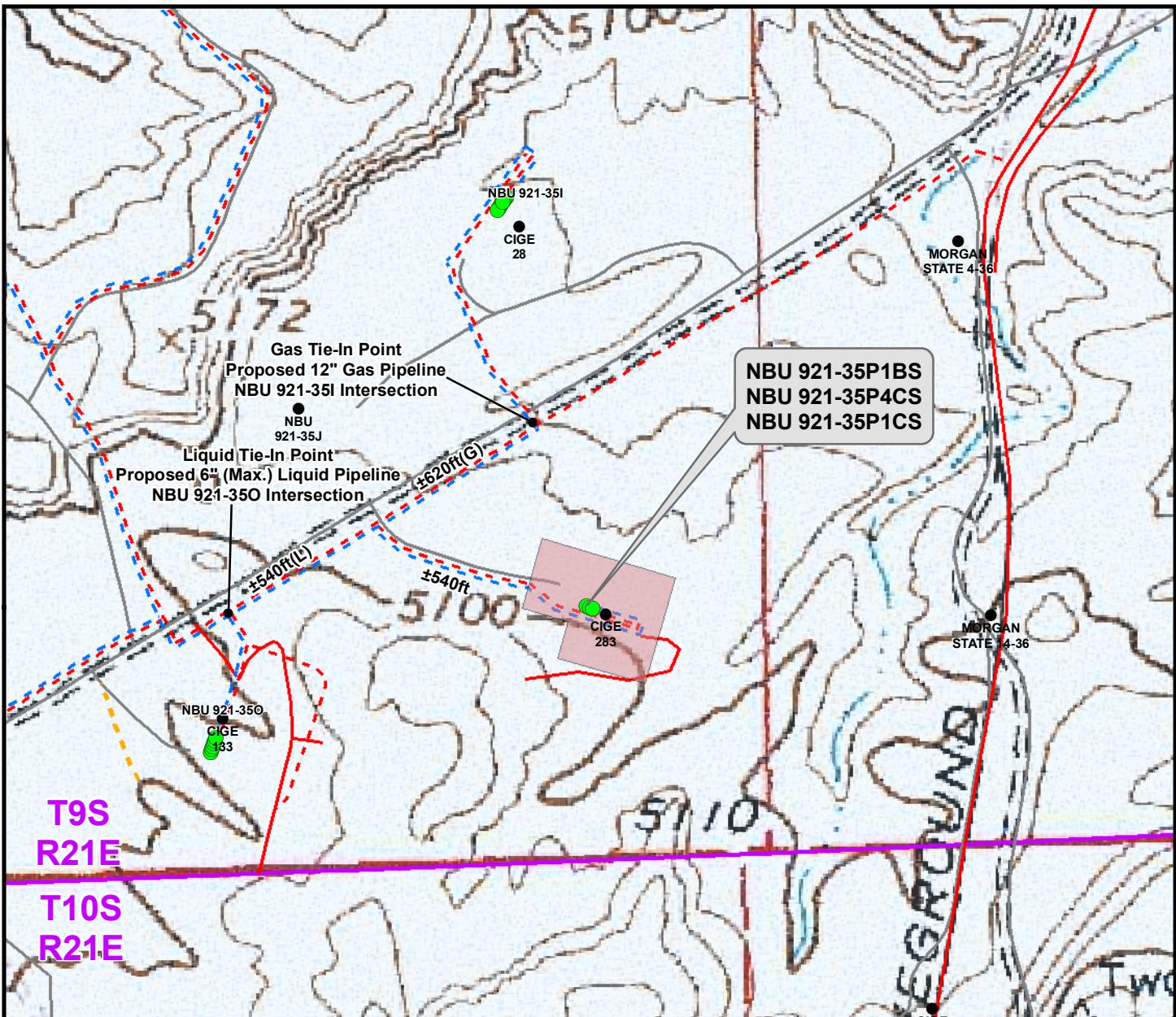
TOPO D
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E
S.L.B.&M., UNTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 19 Oct 2010	12
Revised:	Date:	12 of 15



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±460ft
Proposed 6" (Max.) (Edge of Pad to 35I Intersection)	±540ft
Proposed 6" (Max.) (35I Intersection to 35O Intersection)	±540ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,540ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±460ft
Proposed 6" (Edge of Pad to 35O Intersection)	±540ft
Proposed 12" (35O Intersection to 35I Intersection)	±620ft
TOTAL PROPOSED GAS PIPELINE =	±1,620ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Gas Pipeline - To Be Upgraded
- - - Gas Pipeline - Proposed
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - To Be Upgraded
- - - Liquid Pipeline - Proposed
- - - Liquid Pipeline - Existing
- - - Road - Proposed
- - - Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35P

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH

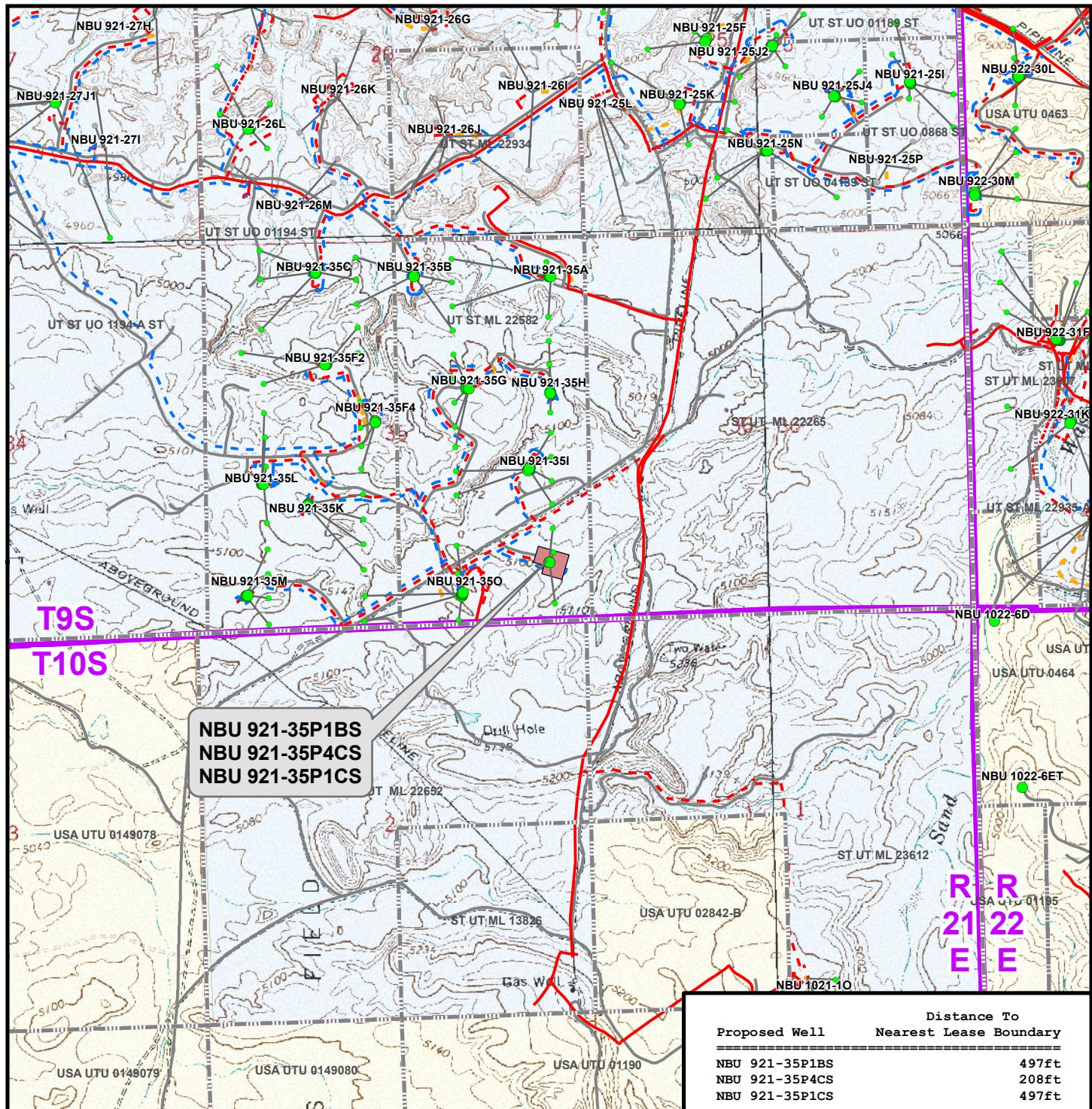


CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 500ft NAD83 USP Central
Drawn: KGS Date: 19 Oct 2010
Revised: Date:
13

Sheet No:
13 13 of 15

**Legend**

- Well - Proposed
- Well Pad
- Bottom Hole - Proposed
- Lease Boundary
- Bottom Hole - Existing
- Well Path
- - - Gas Pipeline - Proposed
- - - Gas Pipeline - To Be Upgraded
- - - Liquid Pipeline - To Be Upgraded
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Existing
- - Road - Proposed
- - Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35P

TOPO E
NBU 921-35P1BS,
NBU 921-35P4CS & NBU 921-35P1CS
LOCATED IN SECTION 35, T9S, R21E
S.L.B.&M., UNTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft NAD83 USP Central Sheet No:
Drawn: KGS Date: 19 Oct 2010 14
Revised: Date:
Date:

14

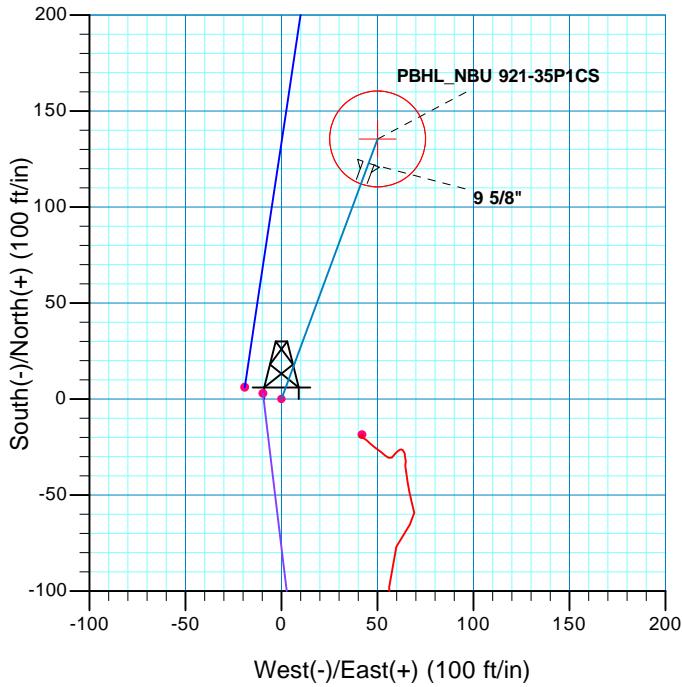
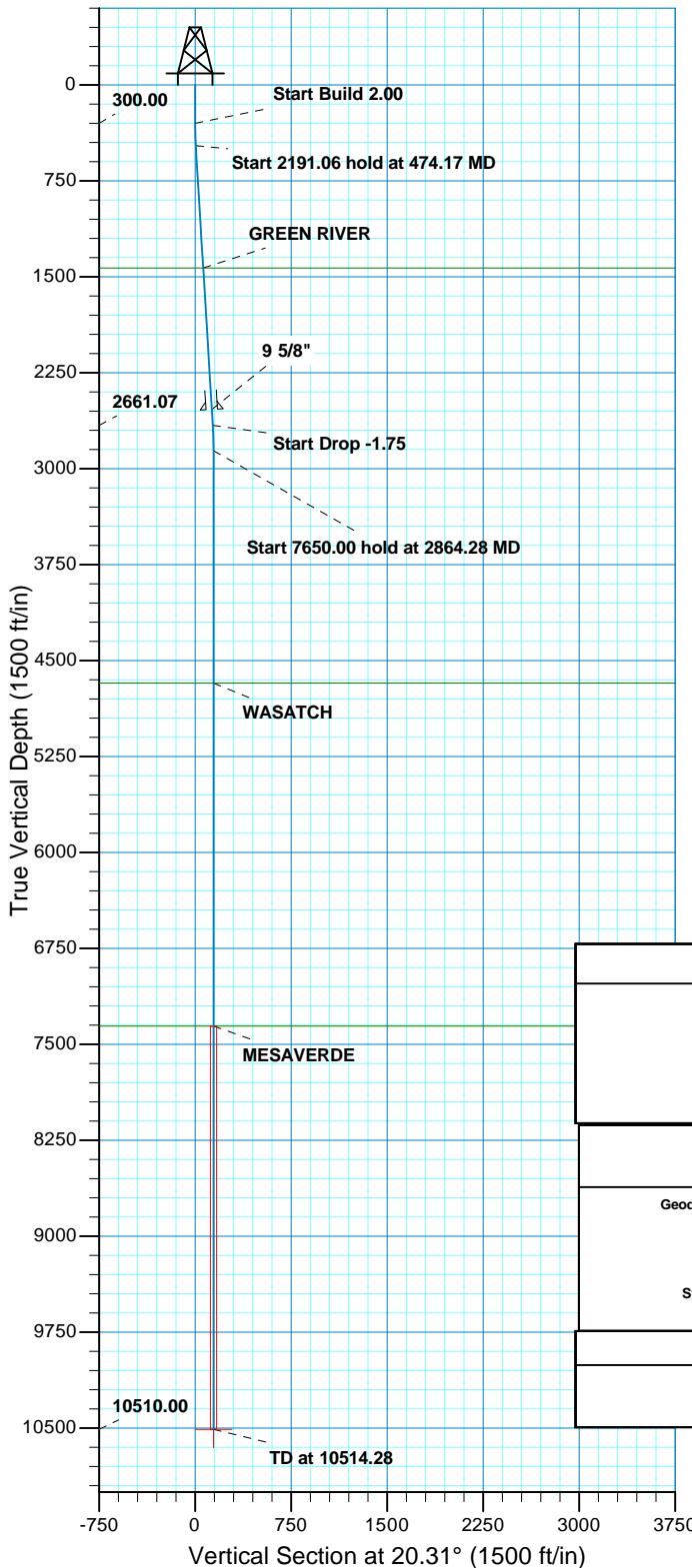
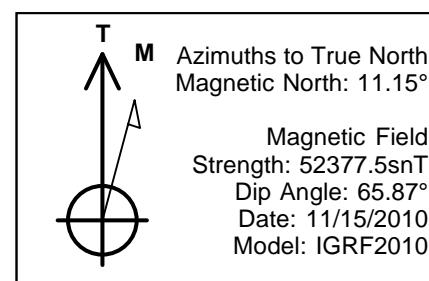
14 of 15

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35P
WELLS – NBU 921-35P1BS, NBU 921-35P4CS
& NBU 921-35P1CS
Section 35, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 20.0 miles to a service road to the southeast. Exit left and proceed in a southeasterly direction along the service road approximately 0.1 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 43.6 miles in a southerly direction.

WELL DETAILS: P_NBU 921-35P1CS						
GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)						
+N-S 0.00	+E/W 0.00	Northing 14524968.42	Easting 2057581.88	Latitude 39° 59' 14.914 N	Longitude 109° 30' 38.650 W	
DESIGN TARGET DETAILS						
Name PBHL	TVD 10510.00	+N-S 135.48	+E/W 50.15	Northing 14525104.73	Easting 2057629.76	Latitude 39° 59' 16.253 N
- plan hits target center						Longitude 109° 30' 38.005 W
						Shape Circle (Radius: 25.00)



SECTION DETAILS								
MD	Inc	Azi	TVD	+N-S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
474.17	3.48	20.31	474.06	4.96	1.84	2.00	20.31	5.29
2665.23	3.48	20.31	2661.07	129.81	48.05	0.00	0.00	138.42
2864.28	0.00	0.00	2860.00	135.48	50.15	1.75	180.00	144.47
10514.28	0.00	0.00	10510.00	135.48	50.15	0.00	0.00	144.47
PBHL_NBU 921-35P1CS								
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N				FORMATION TOP DETAILS				
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 35 TSS R21E System Datum: Mean Sea Level				TVDPath	MDPath	Formation		
				1431.00	1432.88	GREEN RIVER		
				4676.00	4680.28	WASATCH		
				7358.00	7362.28	MESAVERDE		
CASING DETAILS								
TVD	MD	Name	Size					
2537.00	2540.93	9 5/8"	9.625					



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UNITAH_NBU 921-35P PAD

P_NBU 921-35P1CS

P_NBU 921-35P1CS

Plan: PLAN #1 11-15-10 RHS

Standard Planning Report

15 November, 2010



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UNITAH_NBU 921-35P PAD, SECTION 35 T9S R21E				
Site Position:		Northing:	14,524,968.43 usft	Latitude:	39° 59' 14.914 N
From:	Lat/Long	Easting:	2,057,581.88 usft	Longitude:	109° 30' 38.650 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	P_NBU 921-35P1CS, 778' FSL 547' FEL				
Well Position	+N/-S +E/-W	0.00 ft 0.00 ft	Northing: Easting:	14,524,968.43 usft 2,057,581.88 usft	Latitude: Longitude:
Position Uncertainty	0.00 ft		Wellhead Elevation:		Ground Level:
					5,098.00 ft

Wellbore	P_NBU 921-35P1CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/15/2010	11.15	65.87	52,377

Design	PLAN #1 11-15-10 RHS				
Audit Notes:					
Version:	Phase:		PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)		+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00		0.00	0.00	20.31

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
474.17	3.48	20.31	474.06	4.96	1.84	2.00	2.00	0.00	20.31	
2,665.23	3.48	20.31	2,661.07	129.81	48.05	0.00	0.00	0.00	0.00	
2,864.28	0.00	0.00	2,860.00	135.48	50.15	1.75	-1.75	0.00	180.00	
10,514.28	0.00	0.00	10,510.00	135.48	50.15	0.00	0.00	0.00	0.00	PBHL_NBU 921-35P'

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	20.31	399.98	1.64	0.61	1.75	2.00	2.00	0.00
474.17	3.48	20.31	474.06	4.96	1.84	5.29	2.00	2.00	0.00
Start 2191.06 hold at 474.17 MD									
500.00	3.48	20.31	499.85	6.44	2.38	6.86	0.00	0.00	0.00
600.00	3.48	20.31	599.66	12.13	4.49	12.94	0.00	0.00	0.00
700.00	3.48	20.31	699.48	17.83	6.60	19.01	0.00	0.00	0.00
800.00	3.48	20.31	799.29	23.53	8.71	25.09	0.00	0.00	0.00
900.00	3.48	20.31	899.11	29.23	10.82	31.17	0.00	0.00	0.00
1,000.00	3.48	20.31	998.92	34.93	12.93	37.24	0.00	0.00	0.00
1,100.00	3.48	20.31	1,098.74	40.62	15.04	43.32	0.00	0.00	0.00
1,200.00	3.48	20.31	1,198.55	46.32	17.15	49.39	0.00	0.00	0.00
1,300.00	3.48	20.31	1,298.37	52.02	19.26	55.47	0.00	0.00	0.00
1,400.00	3.48	20.31	1,398.18	57.72	21.36	61.55	0.00	0.00	0.00
1,432.88	3.48	20.31	1,431.00	59.59	22.06	63.54	0.00	0.00	0.00
GREEN RIVER									
1,500.00	3.48	20.31	1,498.00	63.42	23.47	67.62	0.00	0.00	0.00
1,600.00	3.48	20.31	1,597.81	69.11	25.58	73.70	0.00	0.00	0.00
1,700.00	3.48	20.31	1,697.63	74.81	27.69	79.77	0.00	0.00	0.00
1,800.00	3.48	20.31	1,797.44	80.51	29.80	85.85	0.00	0.00	0.00
1,900.00	3.48	20.31	1,897.26	86.21	31.91	91.92	0.00	0.00	0.00
2,000.00	3.48	20.31	1,997.07	91.91	34.02	98.00	0.00	0.00	0.00
2,100.00	3.48	20.31	2,096.89	97.60	36.13	104.08	0.00	0.00	0.00
2,200.00	3.48	20.31	2,196.70	103.30	38.24	110.15	0.00	0.00	0.00
2,300.00	3.48	20.31	2,296.52	109.00	40.35	116.23	0.00	0.00	0.00
2,400.00	3.48	20.31	2,396.33	114.70	42.46	122.30	0.00	0.00	0.00
2,500.00	3.48	20.31	2,496.15	120.40	44.56	128.38	0.00	0.00	0.00
2,540.93	3.48	20.31	2,537.00	122.73	45.43	130.87	0.00	0.00	0.00
9 5/8"									
2,600.00	3.48	20.31	2,595.97	126.10	46.67	134.46	0.00	0.00	0.00
2,665.23	3.48	20.31	2,661.07	129.81	48.05	138.42	0.00	0.00	0.00
Start Drop -1.75									
2,700.00	2.87	20.31	2,695.79	131.62	48.72	140.35	1.75	-1.75	0.00
2,800.00	1.12	20.31	2,795.73	134.89	49.93	143.84	1.75	-1.75	0.00
2,864.28	0.00	0.00	2,860.00	135.48	50.15	144.47	1.75	-1.75	-31.60
Start 7650.00 hold at 2864.28 MD									
2,900.00	0.00	0.00	2,895.72	135.48	50.15	144.47	0.00	0.00	0.00
3,000.00	0.00	0.00	2,995.72	135.48	50.15	144.47	0.00	0.00	0.00
3,100.00	0.00	0.00	3,095.72	135.48	50.15	144.47	0.00	0.00	0.00
3,200.00	0.00	0.00	3,195.72	135.48	50.15	144.47	0.00	0.00	0.00
3,300.00	0.00	0.00	3,295.72	135.48	50.15	144.47	0.00	0.00	0.00
3,400.00	0.00	0.00	3,395.72	135.48	50.15	144.47	0.00	0.00	0.00
3,500.00	0.00	0.00	3,495.72	135.48	50.15	144.47	0.00	0.00	0.00
3,600.00	0.00	0.00	3,595.72	135.48	50.15	144.47	0.00	0.00	0.00
3,700.00	0.00	0.00	3,695.72	135.48	50.15	144.47	0.00	0.00	0.00
3,800.00	0.00	0.00	3,795.72	135.48	50.15	144.47	0.00	0.00	0.00
3,900.00	0.00	0.00	3,895.72	135.48	50.15	144.47	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,000.00	0.00	0.00	3,995.72	135.48	50.15	144.47	0.00	0.00	0.00
4,100.00	0.00	0.00	4,095.72	135.48	50.15	144.47	0.00	0.00	0.00
4,200.00	0.00	0.00	4,195.72	135.48	50.15	144.47	0.00	0.00	0.00
4,300.00	0.00	0.00	4,295.72	135.48	50.15	144.47	0.00	0.00	0.00
4,400.00	0.00	0.00	4,395.72	135.48	50.15	144.47	0.00	0.00	0.00
4,500.00	0.00	0.00	4,495.72	135.48	50.15	144.47	0.00	0.00	0.00
4,600.00	0.00	0.00	4,595.72	135.48	50.15	144.47	0.00	0.00	0.00
4,680.28	0.00	0.00	4,676.00	135.48	50.15	144.47	0.00	0.00	0.00
WASATCH									
4,700.00	0.00	0.00	4,695.72	135.48	50.15	144.47	0.00	0.00	0.00
4,800.00	0.00	0.00	4,795.72	135.48	50.15	144.47	0.00	0.00	0.00
4,900.00	0.00	0.00	4,895.72	135.48	50.15	144.47	0.00	0.00	0.00
5,000.00	0.00	0.00	4,995.72	135.48	50.15	144.47	0.00	0.00	0.00
5,100.00	0.00	0.00	5,095.72	135.48	50.15	144.47	0.00	0.00	0.00
5,200.00	0.00	0.00	5,195.72	135.48	50.15	144.47	0.00	0.00	0.00
5,300.00	0.00	0.00	5,295.72	135.48	50.15	144.47	0.00	0.00	0.00
5,400.00	0.00	0.00	5,395.72	135.48	50.15	144.47	0.00	0.00	0.00
5,500.00	0.00	0.00	5,495.72	135.48	50.15	144.47	0.00	0.00	0.00
5,600.00	0.00	0.00	5,595.72	135.48	50.15	144.47	0.00	0.00	0.00
5,700.00	0.00	0.00	5,695.72	135.48	50.15	144.47	0.00	0.00	0.00
5,800.00	0.00	0.00	5,795.72	135.48	50.15	144.47	0.00	0.00	0.00
5,900.00	0.00	0.00	5,895.72	135.48	50.15	144.47	0.00	0.00	0.00
6,000.00	0.00	0.00	5,995.72	135.48	50.15	144.47	0.00	0.00	0.00
6,100.00	0.00	0.00	6,095.72	135.48	50.15	144.47	0.00	0.00	0.00
6,200.00	0.00	0.00	6,195.72	135.48	50.15	144.47	0.00	0.00	0.00
6,300.00	0.00	0.00	6,295.72	135.48	50.15	144.47	0.00	0.00	0.00
6,400.00	0.00	0.00	6,395.72	135.48	50.15	144.47	0.00	0.00	0.00
6,500.00	0.00	0.00	6,495.72	135.48	50.15	144.47	0.00	0.00	0.00
6,600.00	0.00	0.00	6,595.72	135.48	50.15	144.47	0.00	0.00	0.00
6,700.00	0.00	0.00	6,695.72	135.48	50.15	144.47	0.00	0.00	0.00
6,800.00	0.00	0.00	6,795.72	135.48	50.15	144.47	0.00	0.00	0.00
6,900.00	0.00	0.00	6,895.72	135.48	50.15	144.47	0.00	0.00	0.00
7,000.00	0.00	0.00	6,995.72	135.48	50.15	144.47	0.00	0.00	0.00
7,100.00	0.00	0.00	7,095.72	135.48	50.15	144.47	0.00	0.00	0.00
7,200.00	0.00	0.00	7,195.72	135.48	50.15	144.47	0.00	0.00	0.00
7,300.00	0.00	0.00	7,295.72	135.48	50.15	144.47	0.00	0.00	0.00
7,362.28	0.00	0.00	7,358.00	135.48	50.15	144.47	0.00	0.00	0.00
MESAVERDE									
7,400.00	0.00	0.00	7,395.72	135.48	50.15	144.47	0.00	0.00	0.00
7,500.00	0.00	0.00	7,495.72	135.48	50.15	144.47	0.00	0.00	0.00
7,600.00	0.00	0.00	7,595.72	135.48	50.15	144.47	0.00	0.00	0.00
7,700.00	0.00	0.00	7,695.72	135.48	50.15	144.47	0.00	0.00	0.00
7,800.00	0.00	0.00	7,795.72	135.48	50.15	144.47	0.00	0.00	0.00
7,900.00	0.00	0.00	7,895.72	135.48	50.15	144.47	0.00	0.00	0.00
8,000.00	0.00	0.00	7,995.72	135.48	50.15	144.47	0.00	0.00	0.00
8,100.00	0.00	0.00	8,095.72	135.48	50.15	144.47	0.00	0.00	0.00
8,200.00	0.00	0.00	8,195.72	135.48	50.15	144.47	0.00	0.00	0.00
8,300.00	0.00	0.00	8,295.72	135.48	50.15	144.47	0.00	0.00	0.00
8,400.00	0.00	0.00	8,395.72	135.48	50.15	144.47	0.00	0.00	0.00
8,500.00	0.00	0.00	8,495.72	135.48	50.15	144.47	0.00	0.00	0.00
8,600.00	0.00	0.00	8,595.72	135.48	50.15	144.47	0.00	0.00	0.00
8,700.00	0.00	0.00	8,695.72	135.48	50.15	144.47	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,795.72	135.48	50.15	144.47	0.00	0.00	0.00
8,900.00	0.00	0.00	8,895.72	135.48	50.15	144.47	0.00	0.00	0.00
9,000.00	0.00	0.00	8,995.72	135.48	50.15	144.47	0.00	0.00	0.00
9,100.00	0.00	0.00	9,095.72	135.48	50.15	144.47	0.00	0.00	0.00
9,200.00	0.00	0.00	9,195.72	135.48	50.15	144.47	0.00	0.00	0.00
9,300.00	0.00	0.00	9,295.72	135.48	50.15	144.47	0.00	0.00	0.00
9,400.00	0.00	0.00	9,395.72	135.48	50.15	144.47	0.00	0.00	0.00
9,500.00	0.00	0.00	9,495.72	135.48	50.15	144.47	0.00	0.00	0.00
9,600.00	0.00	0.00	9,595.72	135.48	50.15	144.47	0.00	0.00	0.00
9,700.00	0.00	0.00	9,695.72	135.48	50.15	144.47	0.00	0.00	0.00
9,800.00	0.00	0.00	9,795.72	135.48	50.15	144.47	0.00	0.00	0.00
9,900.00	0.00	0.00	9,895.72	135.48	50.15	144.47	0.00	0.00	0.00
10,000.00	0.00	0.00	9,995.72	135.48	50.15	144.47	0.00	0.00	0.00
10,100.00	0.00	0.00	10,095.72	135.48	50.15	144.47	0.00	0.00	0.00
10,200.00	0.00	0.00	10,195.72	135.48	50.15	144.47	0.00	0.00	0.00
10,300.00	0.00	0.00	10,295.72	135.48	50.15	144.47	0.00	0.00	0.00
10,400.00	0.00	0.00	10,395.72	135.48	50.15	144.47	0.00	0.00	0.00
10,500.00	0.00	0.00	10,495.72	135.48	50.15	144.47	0.00	0.00	0.00
10,514.28	0.00	0.00	10,510.00	135.48	50.15	144.47	0.00	0.00	0.00
PBHL_NBU 921-35P1CS									

Design Targets										
Target Name		Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target	- Shape									
PBHL_NBU 921-35P1C: - plan hits target center - Circle (radius 25.00)										

Casing Points										
Measured Depth (ft)	Vertical Depth (ft)	Name				Casing Diameter (in)	Hole Diameter (in)			
2,540.93	2,537.00	9 5/8"				9.625	12.250			

Formations										
Measured Depth (ft)	Vertical Depth (ft)	Name			Lithology		Dip (°)	Dip Direction (°)		
1,432.88	1,431.00	GREEN RIVER								
4,680.28	4,676.00	WASATCH								
7,362.28	7,358.00	MESAVERDE								

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			Comment
		+N/S (ft)	+E/W (ft)		
300.00	300.00	0.00	0.00		Start Build 2.00
474.17	474.06	4.96	1.84		Start 2191.06 hold at 474.17 MD
2,665.23	2,661.07	129.81	48.05		Start Drop -1.75
2,864.28	2,860.00	135.48	50.15		Start 7650.00 hold at 2864.28 MD
10,514.28	10,510.00	135.48	50.15		TD at 10514.28



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UNITAH_NBU 921-35P PAD

P_NBU 921-35P1CS

P_NBU 921-35P1CS

Plan: PLAN #1 11-15-10 RHS

Standard Planning Report - Geographic

15 November, 2010



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UNITAH_NBU 921-35P PAD, SECTION 35 T9S R21E				
Site Position:		Northing:	14,524,968.43 usft	Latitude:	39° 59' 14.914 N
From:	Lat/Long	Easting:	2,057,581.88 usft	Longitude:	109° 30' 38.650 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	P_NBU 921-35P1CS, 778' FSL 547' FEL				
Well Position	+N/S +E/W	0.00 ft	Northing: Easting:	14,524,968.43 usft 2,057,581.88 usft	Latitude: Longitude:
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:
					5,098.00 ft

Wellbore	P_NBU 921-35P1CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/15/2010	11.15	65.87	52,377

Design	PLAN #1 11-15-10 RHS				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (ft)	+N/S (ft)	+E/W (ft)	Direction (°)
		0.00	0.00	0.00	20.31

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
474.17	3.48	20.31	474.06	4.96	1.84	2.00	2.00	0.00	20.31	
2,665.23	3.48	20.31	2,661.07	129.81	48.05	0.00	0.00	0.00	0.00	
2,864.28	0.00	0.00	2,860.00	135.48	50.15	1.75	-1.75	0.00	180.00	
10,514.28	0.00	0.00	10,510.00	135.48	50.15	0.00	0.00	0.00	0.00	PBHL_NBU 921-35P1

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	14,524,968.43	2,057,581.88	39° 59' 14.914 N	109° 30' 38.650 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,524,968.43	2,057,581.88	39° 59' 14.914 N	109° 30' 38.650 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,524,968.43	2,057,581.88	39° 59' 14.914 N	109° 30' 38.650 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,524,968.43	2,057,581.88	39° 59' 14.914 N	109° 30' 38.650 W	
Start Build 2.00										
400.00	2.00	20.31	399.98	1.64	0.61	14,524,970.07	2,057,582.46	39° 59' 14.930 N	109° 30' 38.642 W	
474.17	3.48	20.31	474.06	4.96	1.84	14,524,973.42	2,057,583.63	39° 59' 14.963 N	109° 30' 38.626 W	
Start 2191.06 hold at 474.17 MD										
500.00	3.48	20.31	499.85	6.44	2.38	14,524,974.90	2,057,584.15	39° 59' 14.977 N	109° 30' 38.619 W	
600.00	3.48	20.31	599.66	12.13	4.49	14,524,980.63	2,057,586.17	39° 59' 15.034 N	109° 30' 38.592 W	
700.00	3.48	20.31	699.48	17.83	6.60	14,524,986.37	2,057,588.18	39° 59' 15.090 N	109° 30' 38.565 W	
800.00	3.48	20.31	799.29	23.53	8.71	14,524,992.10	2,057,590.19	39° 59' 15.146 N	109° 30' 38.538 W	
900.00	3.48	20.31	899.11	29.23	10.82	14,524,997.83	2,057,592.21	39° 59' 15.203 N	109° 30' 38.511 W	
1,000.00	3.48	20.31	998.92	34.93	12.93	14,525,003.56	2,057,594.22	39° 59' 15.259 N	109° 30' 38.483 W	
1,100.00	3.48	20.31	1,098.74	40.62	15.04	14,525,009.30	2,057,596.24	39° 59' 15.315 N	109° 30' 38.456 W	
1,200.00	3.48	20.31	1,198.55	46.32	17.15	14,525,015.03	2,057,598.25	39° 59' 15.371 N	109° 30' 38.429 W	
1,300.00	3.48	20.31	1,298.37	52.02	19.26	14,525,020.76	2,057,600.26	39° 59' 15.428 N	109° 30' 38.402 W	
1,400.00	3.48	20.31	1,398.18	57.72	21.36	14,525,026.49	2,057,602.28	39° 59' 15.484 N	109° 30' 38.375 W	
1,432.88	3.48	20.31	1,431.00	59.59	22.06	14,525,028.38	2,057,602.94	39° 59' 15.503 N	109° 30' 38.366 W	
GREEN RIVER										
1,500.00	3.48	20.31	1,498.00	63.42	23.47	14,525,032.23	2,057,604.29	39° 59' 15.540 N	109° 30' 38.348 W	
1,600.00	3.48	20.31	1,597.81	69.11	25.58	14,525,037.96	2,057,606.30	39° 59' 15.597 N	109° 30' 38.321 W	
1,700.00	3.48	20.31	1,697.63	74.81	27.69	14,525,043.69	2,057,608.32	39° 59' 15.653 N	109° 30' 38.294 W	
1,800.00	3.48	20.31	1,797.44	80.51	29.80	14,525,049.42	2,057,610.33	39° 59' 15.709 N	109° 30' 38.267 W	
1,900.00	3.48	20.31	1,897.26	86.21	31.91	14,525,055.16	2,057,612.34	39° 59' 15.766 N	109° 30' 38.240 W	
2,000.00	3.48	20.31	1,997.07	91.91	34.02	14,525,060.89	2,057,614.36	39° 59' 15.822 N	109° 30' 38.212 W	
2,100.00	3.48	20.31	2,096.89	97.60	36.13	14,525,066.62	2,057,616.37	39° 59' 15.878 N	109° 30' 38.185 W	
2,200.00	3.48	20.31	2,196.70	103.30	38.24	14,525,072.35	2,057,618.39	39° 59' 15.935 N	109° 30' 38.158 W	
2,300.00	3.48	20.31	2,296.52	109.00	40.35	14,525,078.09	2,057,620.40	39° 59' 15.991 N	109° 30' 38.131 W	
2,400.00	3.48	20.31	2,396.33	114.70	42.46	14,525,083.82	2,057,622.41	39° 59' 16.047 N	109° 30' 38.104 W	
2,500.00	3.48	20.31	2,496.15	120.40	44.56	14,525,089.55	2,057,624.43	39° 59' 16.104 N	109° 30' 38.077 W	
2,540.93	3.48	20.31	2,537.00	122.73	45.43	14,525,091.90	2,057,625.25	39° 59' 16.127 N	109° 30' 38.066 W	
9 5/8"										
2,600.00	3.48	20.31	2,595.97	126.10	46.67	14,525,095.28	2,057,626.44	39° 59' 16.160 N	109° 30' 38.050 W	
2,665.23	3.48	20.31	2,661.07	129.81	48.05	14,525,099.02	2,057,627.75	39° 59' 16.197 N	109° 30' 38.032 W	
Start Drop -1.75										
2,700.00	2.87	20.31	2,695.79	131.62	48.72	14,525,100.84	2,057,628.39	39° 59' 16.215 N	109° 30' 38.024 W	
2,800.00	1.12	20.31	2,795.73	134.89	49.93	14,525,104.14	2,057,629.55	39° 59' 16.247 N	109° 30' 38.008 W	
2,864.28	0.00	0.00	2,860.00	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
Start 7650.00 hold at 2864.28 MD										
2,900.00	0.00	0.00	2,895.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,000.00	0.00	0.00	2,995.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,100.00	0.00	0.00	3,095.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,200.00	0.00	0.00	3,195.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,300.00	0.00	0.00	3,295.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,400.00	0.00	0.00	3,395.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,500.00	0.00	0.00	3,495.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,600.00	0.00	0.00	3,595.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,700.00	0.00	0.00	3,695.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,800.00	0.00	0.00	3,795.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
3,900.00	0.00	0.00	3,895.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,000.00	0.00	0.00	3,995.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Planned Survey										
Measured			Vertical		Map			Map		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/S (ft)	+E/W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
4,100.00	0.00	0.00	4,095.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,200.00	0.00	0.00	4,195.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,300.00	0.00	0.00	4,295.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,400.00	0.00	0.00	4,395.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,500.00	0.00	0.00	4,495.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,600.00	0.00	0.00	4,595.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,680.28	0.00	0.00	4,676.00	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
WASATCH										
4,700.00	0.00	0.00	4,695.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,800.00	0.00	0.00	4,795.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
4,900.00	0.00	0.00	4,895.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,000.00	0.00	0.00	4,995.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,100.00	0.00	0.00	5,095.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,200.00	0.00	0.00	5,195.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,300.00	0.00	0.00	5,295.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,400.00	0.00	0.00	5,395.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,500.00	0.00	0.00	5,495.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,600.00	0.00	0.00	5,595.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,700.00	0.00	0.00	5,695.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,800.00	0.00	0.00	5,795.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
5,900.00	0.00	0.00	5,895.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,000.00	0.00	0.00	5,995.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,100.00	0.00	0.00	6,095.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,200.00	0.00	0.00	6,195.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,300.00	0.00	0.00	6,295.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,400.00	0.00	0.00	6,395.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,500.00	0.00	0.00	6,495.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,600.00	0.00	0.00	6,595.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,700.00	0.00	0.00	6,695.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,800.00	0.00	0.00	6,795.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
6,900.00	0.00	0.00	6,895.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,000.00	0.00	0.00	6,995.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,100.00	0.00	0.00	7,095.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,200.00	0.00	0.00	7,195.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,300.00	0.00	0.00	7,295.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,362.28	0.00	0.00	7,358.00	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
MESAVERDE										
7,400.00	0.00	0.00	7,395.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,500.00	0.00	0.00	7,495.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,600.00	0.00	0.00	7,595.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,700.00	0.00	0.00	7,695.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,800.00	0.00	0.00	7,795.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
7,900.00	0.00	0.00	7,895.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,000.00	0.00	0.00	7,995.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,100.00	0.00	0.00	8,095.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,200.00	0.00	0.00	8,195.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,300.00	0.00	0.00	8,295.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,400.00	0.00	0.00	8,395.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,500.00	0.00	0.00	8,495.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,600.00	0.00	0.00	8,595.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,700.00	0.00	0.00	8,695.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
8,800.00	0.00	0.00	8,795.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Planned Survey										
Measured			Vertical		Map		Map			
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/S (ft)	+E/W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
8,900.00	0.00	0.00	8,895.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,000.00	0.00	0.00	8,995.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,100.00	0.00	0.00	9,095.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,200.00	0.00	0.00	9,195.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,300.00	0.00	0.00	9,295.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,400.00	0.00	0.00	9,395.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,500.00	0.00	0.00	9,495.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,600.00	0.00	0.00	9,595.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,700.00	0.00	0.00	9,695.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,800.00	0.00	0.00	9,795.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
9,900.00	0.00	0.00	9,895.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
10,000.00	0.00	0.00	9,995.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
10,100.00	0.00	0.00	10,095.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
10,200.00	0.00	0.00	10,195.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
10,300.00	0.00	0.00	10,295.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
10,400.00	0.00	0.00	10,395.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
10,500.00	0.00	0.00	10,495.72	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	
10,514.28	0.00	0.00	10,510.00	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W	

PBHL_NBU 921-35P1CS

Design Targets										
Target Name		Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target	- Shape									
PBHL_NBU 921-35P1C:	- plan hits target center	0.00	0.00	10,510.00	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W
- Circle (radius 25.00)										

Casing Points										
Measured	Vertical				Name	Casing	Hole			
Depth (ft)	Depth (ft)					Diameter (in)	Diameter (in)			
2,540.93	2,537.00	9 5/8"					9.625	12.250		

Formations										
Measured	Vertical				Name	Lithology	Dip	Dip		
Depth (ft)	Depth (ft)						(°)	(°)		
1,432.88	1,431.00	GREEN RIVER								
4,680.28	4,676.00	WASATCH								
7,362.28	7,358.00	MESAVERDE								

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 14' @ 5112.00ft (ASSUMED)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	P_NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35P1CS		
Design:	PLAN #1 11-15-10 RHS		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			Comment
		+N/S (ft)	+E/W (ft)		
300.00	300.00	0.00	0.00		Start Build 2.00
474.17	474.06	4.96	1.84		Start 2191.06 hold at 474.17 MD
2,665.23	2,661.07	129.81	48.05		Start Drop -1.75
2,864.28	2,860.00	135.48	50.15		Start 7650.00 hold at 2864.28 MD
10,514.28	10,510.00	135.48	50.15		TD at 10514.28

NBU 921-35P1BS

Surface: 785' FSL 566' FEL (SE/4SE/4) Lot 1
BHL: 1,245' FSL 497' FEL (SE/4SE/4) Lot 1

NBU 921-35P4CS

Surface: 781' FSL 557' FEL (SE/4SE/4) Lot 1
BHL: 208' FSL 489' FEL (SE/4SE/4) Lot 1

NBU 921-35P1CS

Surface: 778' FSL 547' FEL (SE/4SE/4) Lot 1
BHL: 913' FSL 497' FEL (SE/4SE/4) Lot 1

Pad: NBU 921-35P
Section 35 T9S R21E
Mineral Lease: ML 22582

Uintah County, Utah

Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new access road is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the CIGE 283, which is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of November 11, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,620'$ and the individual segments are broken up as follows:

- $\pm 460'$ (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad.
- $\pm 540'$ (0.1 miles) –New 6" buried gas pipeline from the edge of pad to the NBU 921-35O pad intersection.
- $\pm 620'$ (0.1 miles) – New 12" buried gas pipeline from the NBU 921-35O pad intersection to the NBU 921-35I pad intersection.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 1,540'$ and the individual segments are broken up as follows:

- ±460' (0.1 miles) –New 6" buried liquid pipeline from the separator to the edge of the pad.
- ±540' (0.1 miles) –New 6" buried liquid pipeline from the edge of pad to the NBU 921-35I pad intersection.
- ±540' (0.1 miles) –New 6" buried liquid pipeline from the NBU 921-35I pad intersection to the NBU 921-35O pad intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.
No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker, The liner

will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs “Reporting Oil and Gas Undesirable Events” rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-

NBU 921-35P1BS / 35P1CS/ 35P4CS

Surface Use Plan of Operations

Page 8

vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

K. Other Information:

None

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

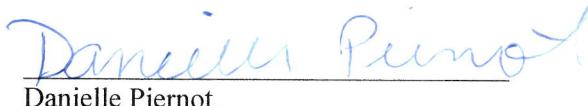
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

November 19, 2010

Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

October 27, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-35P1CS
T9S-R21E
Section 35: SESE (Surf), SESE (Bottom)
Surface: 778' FSL, 547' FEL
Bottom Hole: 913' FSL, 497' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-35P1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

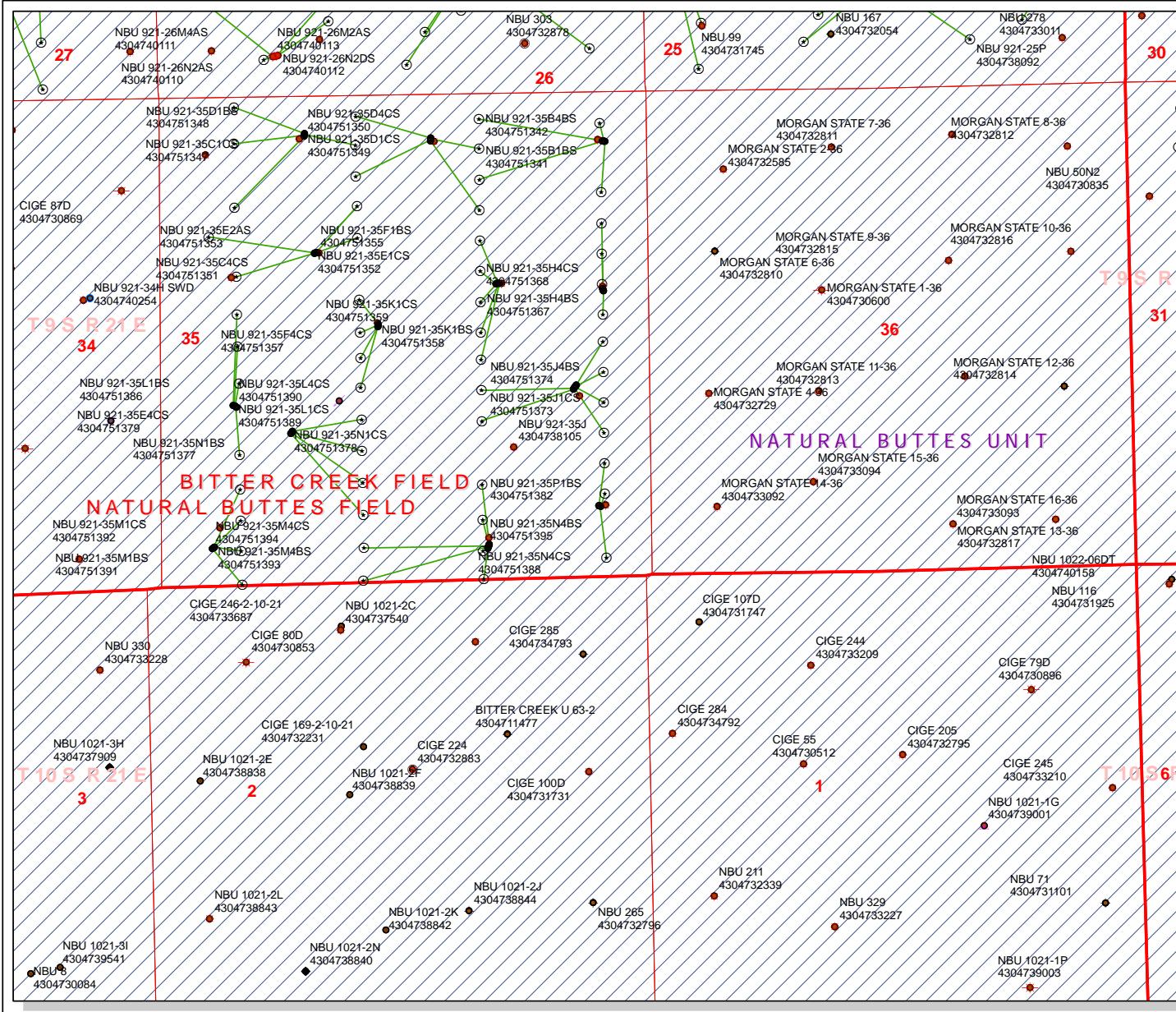
Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads "Joe Matney".

Joe Matney
Sr. Staff Landman



API Number: 4304751381
Well Name: NBU 921-35P1CS
Township 09.0 S Range 21.0 E Section 35
Meridian: SLBM
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason



1,400
700
0
1,400 Feet
1:13,286

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

December 1, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35F2 Pad

43-047-51355 NBU 921-35F1BS Sec 35 T09S R21E 1684 FNL 1709 FWL
BHL Sec 35 T09S R21E 1531 FNL 2146 FWL

NBU 921-35F4 PAD

43-047-51356 NBU 921-35F4BS Sec 35 T09S R21E 2473 FNL 2358 FWL
BHL Sec 35 T09S R21E 2210 FNL 2158 FWL

43-047-51357 NBU 921-35F4CS Sec 35 T09S R21E 2483 FNL 2358 FWL
BHL Sec 35 T09S R21E 2567 FNL 2159 FWL

43-047-51358 NBU 921-35K1BS Sec 35 T09S R21E 2493 FNL 2358 FWL
BHL Sec 35 T09S R21E 2484 FSL 2161 FWL

43-047-51359 NBU 921-35K1CS Sec 35 T09S R21E 2503 FNL 2357 FWL
BHL Sec 35 T09S R21E 2163 FSL 2155 FWL

NBU 921-35G Pad

43-047-51360 NBU 921-35G1BS Sec 35 T09S R21E 2053 FNL 1633 FEL
BHL Sec 35 T09S R21E 1583 FNL 1819 FEL

43-047-51361 NBU 921-35G1CS Sec 35 T09S R21E 2053 FNL 1653 FEL
BHL Sec 35 T09S R21E 1916 FNL 1820 FEL

43-047-51362 NBU 921-35G4BS Sec 35 T09S R21E 2053 FNL 1643 FEL
BHL Sec 35 T09S R21E 2250 FNL 1822 FEL

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ WASATCH-MESA VERDE)

43-047-51363	NBU 921-35G4CS	Sec 35 T09S R21E 2053 FNL 1623 FEL
	BHL Sec 35 T09S R21E 2583 FNL 1823 FEL	

43-047-51364	NBU 921-35J1BS	Sec 35 T09S R21E 2053 FNL 1613 FEL
	BHL Sec 35 T09S R21E 2419 FSL 1824 FEL	

NBU 921-35H PAD

43-047-51365	NBU 921-35H1BS	Sec 35 T09S R21E 2143 FNL 0486 FEL
	BHL Sec 35 T09S R21E 1411 FNL 0494 FEL	

43-047-51366	NBU 921-35H1CS	Sec 35 T09S R21E 2133 FNL 0490 FEL
	BHL Sec 35 T09S R21E 1743 FNL 0495 FEL	

43-047-51367	NBU 921-35H4BS	Sec 35 T09S R21E 2124 FNL 0493 FEL
	BHL Sec 35 T09S R21E 2075 FNL 0495 FEL	

43-047-51368	NBU 921-35H4CS	Sec 35 T09S R21E 2152 FNL 0483 FEL
	BHL Sec 35 T09S R21E 2407 FNL 0495 FEL	

NBU 921-35I PAD

43-047-51369	NBU 921-35I1BS	Sec 35 T09S R21E 2106 FSL 0794 FEL
	BHL Sec 35 T09S R21E 2572 FSL 0496 FEL	

43-047-51370	NBU 921-35I1CS	Sec 35 T09S R21E 2098 FSL 0800 FEL
	BHL Sec 35 T09S R21E 2240 FSL 0496 FEL	

43-047-51371	NBU 921-35I4BS	Sec 35 T09S R21E 2090 FSL 0806 FEL
	BHL Sec 35 T09S R21E 1908 FSL 0496 FEL	

43-047-51372	NBU 921-35I4CS	Sec 35 T09S R21E 2082 FSL 0811 FEL
	BHL Sec 35 T09S R21E 1577 FSL 0497 FEL	

43-047-51373	NBU 921-35J1CS	Sec 35 T09S R21E 2074 FSL 0817 FEL
	BHL Sec 35 T09S R21E 2086 FSL 1825 FEL	

43-047-51374	NBU 921-35J4BS	Sec 35 T09S R21E 2066 FSL 0823 FEL
	BHL Sec 35 T09S R21E 1752 FSL 1826 FEL	

NBU 921-35K PAD

43-047-51375	NBU 921-35K4BS	Sec 35 T09S R21E 1710 FSL 1409 FWL
	BHL Sec 35 T09S R21E 1814 FSL 2165 FWL	

43-047-51376	NBU 921-35K4CS	Sec 35 T09S R21E 1702 FSL 1403 FWL
	BHL Sec 35 T09S R21E 1469 FSL 2163 FWL	

43-047-51377	NBU 921-35N1BS	Sec 35 T09S R21E 1694 FSL 1397 FWL
	BHL Sec 35 T09S R21E 1124 FSL 2161 FWL	

43-047-51378	NBU 921-35N1CS	Sec 35 T09S R21E 1686 FSL 1392 FWL
	BHL Sec 35 T09S R21E 0771 FSL 2162 FWL	

API #	WELL NAME	LOCATION
-------	-----------	----------

NBU 921-35L PAD

43-047-51379	NBU 921-35E4CS	Sec 35 T09S R21E 2016 FSL 0768 FWL BHL Sec 35 T09S R21E 2343 FNL 0823 FWL
43-047-51386	NBU 921-35L1BS	Sec 35 T09S R21E 2013 FSL 0778 FWL BHL Sec 35 T09S R21E 2658 FSL 0826 FWL
43-047-51389	NBU 921-35L1CS	Sec 35 T09S R21E 2009 FSL 0787 FWL BHL Sec 35 T09S R21E 2255 FSL 0835 FWL
43-047-51390	NBU 921-35L4CS	Sec 35 T09S R21E 2005 FSL 0796 FWL BHL Sec 35 T09S R21E 1470 FSL 0832 FWL

NBU 921-35P PAD

43-047-51380	NBU 921-35P4CS	Sec 35 T09S R21E 0781 FSL 0557 FEL BHL Sec 35 T09S R21E 0208 FSL 0489 FEL
43-047-51381	NBU 921-35P1CS	Sec 35 T09S R21E 0778 FSL 0547 FEL BHL Sec 35 T09S R21E 0913 FSL 0497 FEL
43-047-51382	NBU 921-35P1BS	Sec 35 T09S R21E 0785 FSL 0566 FEL BHL Sec 35 T09S R21E 1245 FSL 0497 FEL

NBU 921-35O PAD

43-047-51383	NBU 921-35O4CS	Sec 35 T09S R21E 0360 FSL 1780 FEL BHL Sec 35 T09S R21E 0026 FSL 1826 FEL
43-047-51384	NBU 921-35O4BS	Sec 35 T09S R21E 0370 FSL 1777 FEL BHL Sec 35 T09S R21E 0336 FSL 1833 FEL
43-047-51385	NBU 921-35O1CS	Sec 35 T09S R21E 0398 FSL 1766 FEL BHL Sec 35 T09S R21E 0674 FSL 1828 FEL
43-047-51387	NBU 921-35O1BS	Sec 35 T09S R21E 0407 FSL 1763 FEL BHL Sec 35 T09S R21E 1059 FSL 1833 FEL
43-047-51388	NBU 921-35N4CS	Sec 35 T09S R21E 0379 FSL 1773 FEL BHL Sec 35 T09S R21E 0051 FSL 2153 FWL

43-047-51395	NBU 921-35N4BS	Sec 35 T09S R21E 0388 FSL 1770 FEL BHL Sec 35 T09S R21E 0410 FSL 2164 FWL
--------------	----------------	--

NBU 921-35M PAD

43-047-51391	NBU 921-35M1BS	Sec 35 T09S R21E 0469 FSL 0526 FWL BHL Sec 35 T09S R21E 1096 FSL 0830 FWL
43-047-51392	NBU 921-35M1CS	Sec 35 T09S R21E 0474 FSL 0534 FWL BHL Sec 35 T09S R21E 0760 FSL 0830 FWL

API #	WELL NAME	LOCATION
-------	-----------	----------

43-047-51393	NBU 921-35M4BS	Sec 35 T09S R21E 0478 FSL 0543 FWL BHL Sec 35 T09S R21E 0423 FSL 0831 FWL
--------------	----------------	--

43-047-51394	NBU 921-35M4CS	Sec 35 T09S R21E 0464 FSL 0517 FWL BHL Sec 35 T09S R21E 0055 FSL 0834 FWL
--------------	----------------	--

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of
Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.12.01 10:03:00 -07'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:12-1-10

From: Jim Davis
To: Bonner, Ed; Hill, Brad; Mason, Diana
CC: Curry, Kristine; Danielle Piernot; Garrison, LaVonne; Hayden, Martha;...
Date: 12/22/2010 5:49 AM
Subject: Kerr McGee APD approvals in 9S 21E Sec 35
Attachments: KMG approvals 921-35 on 12.22.2010.xls

The following wells have been approved by SITLA under the following arch and paleo stipulations. This is a long list, so I'm attaching a spreadsheet with the same information.

A note on arch and paleo stipulations: Wells that have an arch note "non-significant site" do not need to be avoided or mitigated. Only those that say "needs to be avoided".

The paleo reports make recommendations for "spot paleo monitoring" or "full paleo monitoring". It is my understanding that Kerr McGee is taking these stipulations and doing full monitoring in either case, in an abundance of caution.

-Jim Davis

Well Name	API	Paleo Stipulations	Arch Stipulations
Kerr-McGee's NBU 921-35A1BS (U-07-MQ-1437b,i,p,s)		API #4304751339	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35A4CS (U-07-MQ-1437b,i,p,s)		API #4304751340	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1BS (U-07-MQ-1437b,i,p,s)		API #4304751341	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4BS (U-07-MQ-1437b,i,p,s)		API #4304751342	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751343	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751344	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751345	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C4BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751346	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1CS (U-07-MQ-1437b,i,p,s)		API #4304751347	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35D1BS (U-07-MQ-1437b,i,p,s)		API #4304751348	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35D1CS (U-07-MQ-1437b,i,p,s)		API #4304751349	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35D4CS (U-07-MQ-1437b,i,p,s)		API #4304751350	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35C4CS (U-07-MQ-1437b,i,p,s)		API #4304751351	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35E1CS (U-07-MQ-1437b,i,p,s)		API #4304751352	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35E2AS (U-07-MQ-1437b,i,p,s)		API #4304751353	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35F1BS (U-07-MQ-1437b,i,p,s)		API #4304751355	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35F4BS (U-07-MQ-1437b,i,p,s)		API #4304751356	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35F4CS (U-07-MQ-1437b,i,p,s)		API #4304751357	IPC 10-97 Full Paleo Monitoring (U-07-
Kerr-McGee's NBU 921-35K1BS		API #4304751358	IPC 10-97 Full Paleo Monitoring (U-07-

MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35K1CS	API #4304751359	IPC 10-97 Full Paleo Monitoring (U-07-
MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35G1BS	API #4304751360	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)		
Kerr-McGee's NBU 921-35G1CS	API #4304751361	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)		
Kerr-McGee's NBU 921-35G4BS	API #4304751362	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)		
Kerr-McGee's NBU 921-35G4CS	API #4304751363	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)		
Kerr-McGee's NBU 921-35J1S	API #4304751364	IPC 10-98 Spot Paleo Monitoring (U-07-
MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)		
Kerr-McGee's NBU 921-35H1BS	API #4304751365	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35H1CS	API #4304751366	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35H4BS	API #4304751367	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35H4CS	API #4304751368	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35I1BS	API #4304751369	IPC 10-100 Full Paleo Monitoring (U-07-
MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35I1CS	API #4304751370	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35I4BS	API #4304751371	IPC 10-100 Full Paleo Monitoring (U-07-
MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35I4CS	API #4304751372	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35J1CS	API #4304751373	IPC 10-98 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35J4BS	API #4304751374	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35K4BS	API #4304751375	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35K4CS	API #4304751376	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35N1BS	API #4304751377	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35N1CS	API #4304751378	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35E4CS	API #4304751379	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35P4CS	API #4304751380	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35P1CS	API #4304751381	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35P1BS	API #4304751382	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35O4CS	API #4304751383	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35O4BS	API #4304751384	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35O1CS	API #4304751385	IPC 10-100 Full Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35L1BS	API #4304751386	IPC 10-99 Spot Paleo Monitoring

(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35O1BS API #4304751387 IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35N4CS API #4304751388 IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35L1CS API #4304751389 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35L4CS API #4304751390 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35M1BS API #4304751391 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35M1CS API #4304751392 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35M4BS API #4304751393 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35M4CS API #4304751394 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35N4BS API #4304751395 IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35P1CS 43047513810000			
String	Surf	Prod		
Casing Size(")	9.625	4.500		
Setting Depth (TVD)	2536	10510		
Previous Shoe Setting Depth (TVD)	40	2536		
Max Mud Weight (ppg)	8.3	13.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3520	10690		
Operators Max Anticipated Pressure (psi)	6937	12.7		

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1098	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	794	NO Air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	540	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	549	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

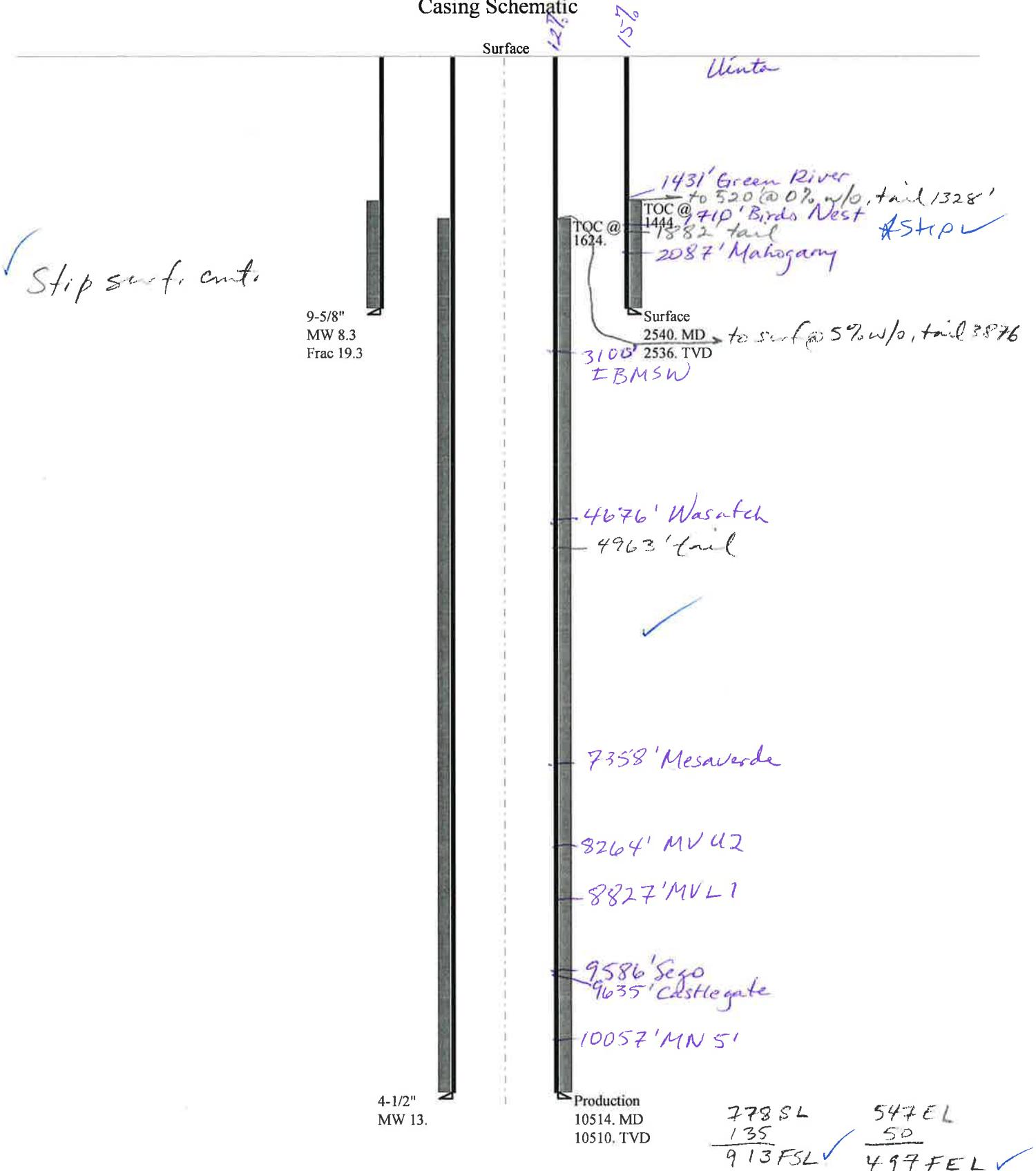
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	7105	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5844	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4793	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5351	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2536	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047513810000 NBU 921-35P1CS

Casing Schematic



SE SE Sec 35 - 9S - 21E

Well name:	43047513810000 NBU 921-35P1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface		
Location:	UINTAH	COUNTY	Project ID: 43-047-51381

Design parameters:		Minimum design factors:		Environment:	
<u>Collapse</u>		<u>Collapse:</u>		H2S considered?	
Mud weight:	8.330 ppg	Design factor	1.125	No	
Design is based on evacuated pipe.		<u>Burst:</u>		Surface temperature:	74 °F
		Design factor	1.00	Bottom hole temperature:	110 °F
				Temperature gradient:	1.40 °F/100ft
				Minimum section length:	100 ft
<u>Burst</u>		<u>Tension:</u>		Cement top:	
Max anticipated surface pressure:	2,235 psi	8 Round STC:	1.80 (J)	Directional Info - Build & Drop	
Internal gradient:	0.120 psi/ft	8 Round LTC:	1.70 (J)	Kick-off point	300 ft
Calculated BHP	2,540 psi	Buttress:	1.60 (J)	Departure at shoe:	131 ft
No backup mud specified.		Premium:	1.50 (J)	Maximum dogleg:	2 °/100ft
		Body yield:	1.50 (B)	Inclination at shoe:	3.48 °
		Tension is based on air weight.		Re subsequent strings:	
		Neutral point:	2,227 ft	Next setting depth:	10,510 ft
				Next mud weight:	13.000 ppg
				Next setting BHP:	7,097 psi
				Fracture mud wt:	19.250 ppg
				Fracture depth:	2,540 ft
				Injection pressure:	2,540 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2540	9.625	36.00	J-55	LT&C	2536	2540	8.796	20771
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1097	2020	1.841	2540	3520	1.39	91.3	453	4.96 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 27,2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2536 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047513810000 NBU 921-35P1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production		
Location:	UINTAH	COUNTY	Project ID: 43-047-51381

Design parameters:		Minimum design factors:		Environment:	
<u>Collapse</u>		<u>Collapse:</u>		H2S considered?	
Mud weight:	13.000 ppg	Design factor	1.125	No	
Design is based on evacuated pipe.		<u>Burst:</u>		Surface temperature:	74 °F
		Design factor	1.00	Bottom hole temperature:	221 °F
		<u>Tension:</u>		Temperature gradient:	1.40 °F/100ft
		8 Round STC:	1.80 (J)	Minimum section length:	100 ft
<u>Burst</u>		8 Round LTC:	1.80 (J)		
Max anticipated surface pressure:	4,785 psi	Buttress:	1.60 (J)	Directional Info - Build & Drop	
Internal gradient:	0.220 psi/ft	Premium:	1.50 (J)	Kick-off point	300 ft
Calculated BHP	7,097 psi	Body yield:	1.60 (B)	Departure at shoe:	145 ft
No backup mud specified.		Tension is based on buoyed weight.		Maximum dogleg:	2 °/100ft
		Neutral point:		Inclination at shoe:	0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10514	4.5	11.60	HCP-110	Buttress	10510	10514	3.875	54195
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	7097	8650	1.219	7097	10690	1.51	98.2	367.2	3.74 B

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 27, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10510 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.			
Well Name	NBU 921-35P1CS			
API Number	43047513810000	APD No	3227	Field/Unit
Location: 1/4,1/4	SESE	Sec 35	Tw 9.0S	Rng 21.0E 778 FSL 547 FEL
GPS Coord (UTM)	627151	4427223		Surface Owner

Participants

See other comments:

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 36 air miles and 43.6 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35P pad will be created by significantly enlarging the existing pad of the CIGE 283 gas well. It will be enlarged in all directions. Three gas wells, to be directionally drilled, will be added. They are the NBU 921-35P1BS, NBU 921-35P1CS and NBU 921-35P4CS. The site is in moderately gentle terrain but breaks off sharply on the north which will be filled. To obtain the needed fill the surface will be lowered up to 1.2. No drainages intersect the pad and no diversions will be needed. A major tributary of Sand Wash is about 1/8 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan**Current Surface Use**

Grazing
Wildlife Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 433	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?**Environmental Parameters**

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a desert shrub type, which includes rabbit brush, Indian ricegrass, stipa commata, crested wheat, 4-winged saltbrush, greasewood, broom snakeweed, shadscale and halogeton.

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are shallow and rocky

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?**

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40
		1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 120' x 260' x 12' deep located mostly in a cut on the southeast corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Lovell Young, Grizz Oleen, Charles Chase, Colby Sutton, Doyle Holmes, Claudia Sass, (Kerr McGee), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying), Jim Davis (SITLA) and Ben Williams, (UDWR).

Floyd Bartlett
Evaluator

11/30/2010
Date / Time

Application for Permit to Drill

Statement of Basis

12/28/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3227	43047513810000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-35P1CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SESE 35 9S 21E S 778 FSL 547 FEL		GPS Coord (UTM)	627155E 4427211N	

Geologic Statement of Basis

Kerr McGee proposes to set 2,540' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,100'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 35. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to cover the base of the moderately saline ground water in order to isolate fresher waters uphole.

Brad Hill
APD Evaluator

12/15/2010
Date / Time

Surface Statement of Basis

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 36 air miles and 43.6 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35P pad will be created by significantly enlarging the existing pad of the CIGE 283 gas well. It will be enlarged in all directions. Three gas wells, to be directionally drilled, will be added. They are the NBU 921-35P1BS, NBU 921-35P1CS and NBU 921-35P4CS. The site is in moderately gentle terrain but breaks off sharply on the north which will be filled. To obtain the needed fill the surface will be lowered up to 1.2. No drainages intersect the pad and no diversions will be needed. A major tributary of Sand Wash is about 1/8 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA provided a seed mix to be used when reclaiming the site.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Floyd Bartlett
Onsite Evaluator

11/30/2010
Date / Time

Application for Permit to Drill

Statement of Basis

12/28/2010

Utah Division of Oil, Gas and Mining

Page 2

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/23/2010

API NO. ASSIGNED: 43047513810000

WELL NAME: NBU 921-35P1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SESE 35 090S 210E

Permit Tech Review:

SURFACE: 0778 FSL 0547 FEL

Engineering Review:

BOTTOM: 0913 FSL 0497 FEL

Geology Review:

COUNTY: UNTAH

LATITUDE: 39.98740

LONGITUDE: -109.51071

UTM SURF EASTINGS: 627155.00

NORTHINGS: 4427211.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22582

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

PLAT

Bond: STATE/FEE - 22013542

Potash

Oil Shale 190-5

Oil Shale 190-3

Oil Shale 190-13

Water Permit: Permit #43-8496

RDCC Review:

Fee Surface Agreement

Intent to Commingle

Commingling Approved

LOCATION AND SITING:

R649-2-3.

Unit: NATURAL BUTTES

R649-3-2. General

R649-3-3. Exception

Drilling Unit

Board Cause No: Cause 173-14

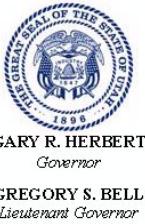
Effective Date: 12/2/1999

Siting: Suspends General Siting

R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingling - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald



GARY R. HERBERT

Governor

GREGORY S. BELL

Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-35P1CS

API Well Number: 43047513810000

Lease Number: ML 22582

Surface Owner: STATE

Approval Date: 12/28/2010

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14 commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

FORM 9

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 PHONE NUMBER: 720 929-6515 Ext

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0778 FSL 0547 FEL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 22582**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:****7. UNIT or CA AGREEMENT NAME:**
NATURAL BUTTES**8. WELL NAME and NUMBER:**
NBU 921-35P1CS**9. API NUMBER:**
43047513810000**9. FIELD and POOL or WILDCAT:**
NATURAL BUTTES**COUNTY:**
UINTAH**STATE:**
UTAH**11.**

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 4/23/2011	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.

RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX.

SPUD WELL LOCATION ON APRIL 23, 2011 AT 11:30 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 4/26/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 921-35P1CS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047513810000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/1/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON APRIL 30, 2011. DRILLED 12 1/4" SURFACE HOLE TO 2580'. RAN 9 5/8" 40# J55 SURFACE CASING. CEMENTED SURFACE CASING. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY			
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst	
SIGNATURE N/A	DATE 5/2/2011		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 921-35P1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047513810000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		COUNTY: UINTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH	
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/4/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator would like to change this well location to a confidential well location.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY			
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II	
SIGNATURE N/A	DATE 5/4/2011		

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 921-35P1CS
Qtr/Qtr SESE Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 4304751381

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 04/23/2011 08:00 HRS AM PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 04/30/2011 08:00 HRS AM PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Address: P.O. Box 173779
city DENVER
state CO zip 80217

Operator Account Number: N 2995
Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751382	NBU 921-35P1BS		SESE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	4/23/2011			4/28/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMV SPUD WELL LOCATION ON 4/23/2011 AT 8:00 HRS. BHL = SESE							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751380	NBU 921-35P4CS		SESE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	4/23/2011			4/28/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMV SPUD WELL LOCATION ON 4/23/2011 AT 9:30 HRS. BHL = SESE							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751381	NBU 921-35P1CS		SESE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	4/23/2011			4/28/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMV SPUD WELL LOCATION ON 4/23/2011 AT 11:30 HRS. BHL = SESE							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

APR 26 2011

ANDY LYTHE

Name (Please Print)

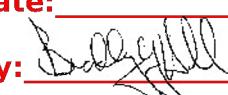
Signature

REGULATORY ANALYST

Title

4/26/2011

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 921-35P1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047513810000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		COUNTY: UINTAH
TYPE OF SUBMISSION <ul style="list-style-type: none"> <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/6/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date: 		TYPE OF ACTION <ul style="list-style-type: none"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION <p>OTHER: <input type="text"/></p>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator would like to change the plans to the subject well location to drill as a Mancos monitor well. Please see attached procedures. Once the monitoring programs is completed, the operator would like to reserve the right to submit a Notice of Intent to abandon the Mancos monitoring and complete & produce from the Meseverde formation (Blackhawk) as originally approved.		
		Approved by the Utah Division of Oil, Gas and Mining
		Date: <u>06/07/2011</u>
		By: 
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 6/6/2011	

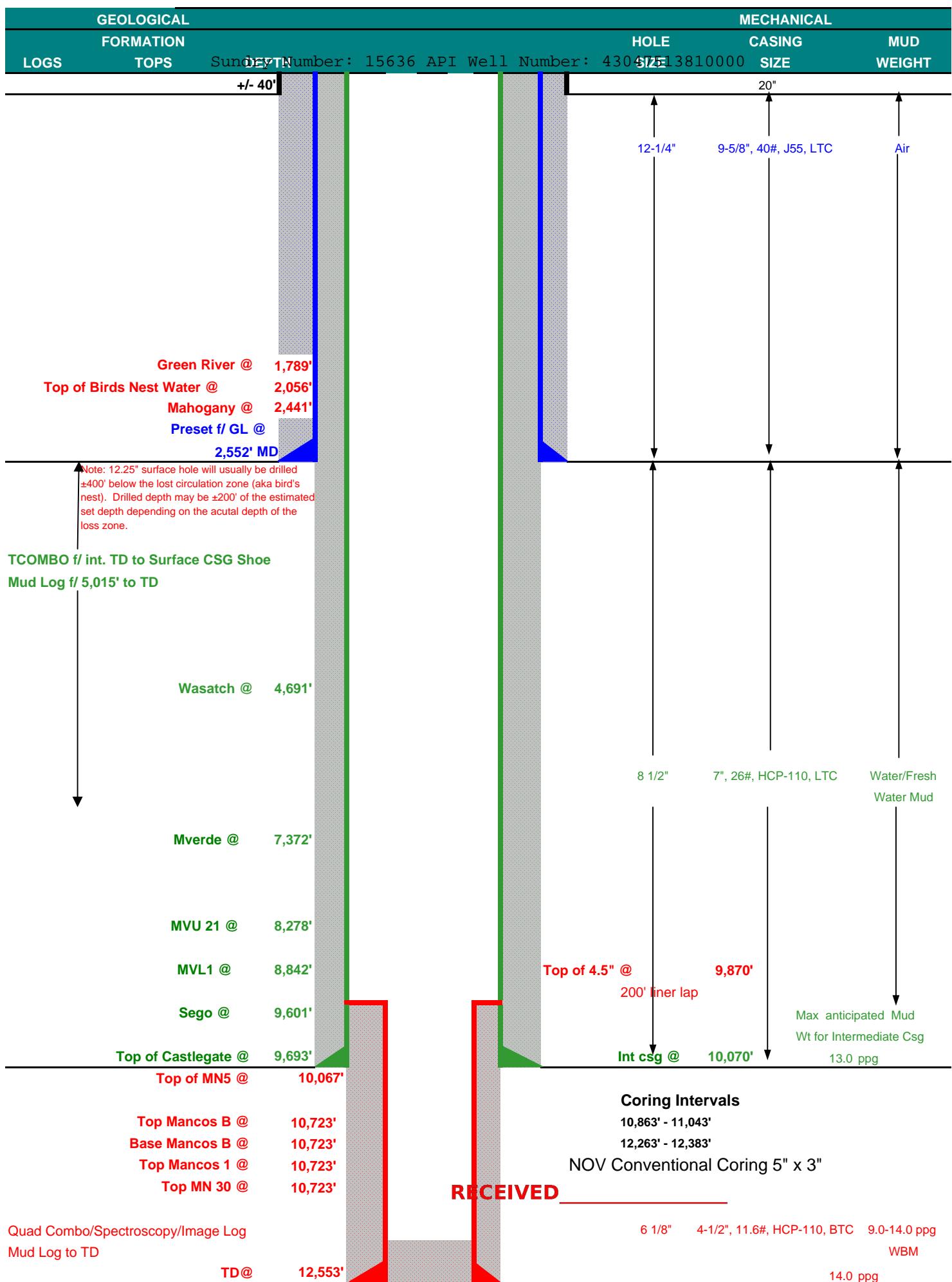
RECEIVED Jun. 06, 2011



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-MCGEE OIL & GAS ONSHORE LP				DATE	May 31, 2011			
WELL NAME	NBU 921-35P1CS				TD	12,553'	TVD	TD	12567 MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION			5,098'
SURFACE LOCATION	SE/4 SE/4	778' FSL	547' FEL	Sec 35	T 9S	R 21E	BHL 913' FSL / 497' FEL		
	Latitude: 39.987476 Longitude: -109.510736			NAD 27					
OBJECTIVE ZONE(S)	Mesaverde/Blackhawk/Mancos								
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), Ute Tribe (SURFACE), UDOGM, Tri-County Health Dept.								





KERR-MCGEE OIL & GAS ONSHORE LP

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,950	2,570	520,000
SURFACE	9-5/8"	0 to 0	40.00	J-55	LTC	0.86	2.15	7.23
INTERMEDIATE	7"	0 to 10,070'	26.00	HCP-110	LTC	9,960	7,800	693,000
PRODUCTION	4-1/2"	9,870' to 12,553'	11.60	HCP-110	BTC	1.56	1.15	3.43
						10690	8650	367000
						1.68	0.95	13.51

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Int Casing) = Pore Pressure at Next Casing Point : (.22 psi/ft-partial evac gradient x TVD of next csg point)

3) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions:MaxPorePress@ Int shoe 13.0 ppg | MW @TD 14.0 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP = 6376.924

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS*	WEIGHT	YIELD
INTERMEDIATE	LEAD	4,191'	440	40%	12.40	2.03
		celloflake + 5 pps gilsonite + 10% gel + 0.5% extender				
		5,879'	1030	40%	14.50	1.22
PRODUCTION	Lead	0,000'	0	10%	13.00	1.97
		Kolseal + 3% KCl + 0.05 pps Static-free + 0.7% R-3 + 0.25 pps celloflake + 0.7% FL-52				*no excess in cased interval
	Tail	2683'	240	10%	14.50	1.22

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 15% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
INTERMEDIATE	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 10M with one annular and 3 rams. Test to 10,000 psi (annular to 5,000 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Run Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Danny Showers / Nick Spence

DATE: _____

DRILLING SUPERINTENDENT:

Lovell Young / Kenny Gathings

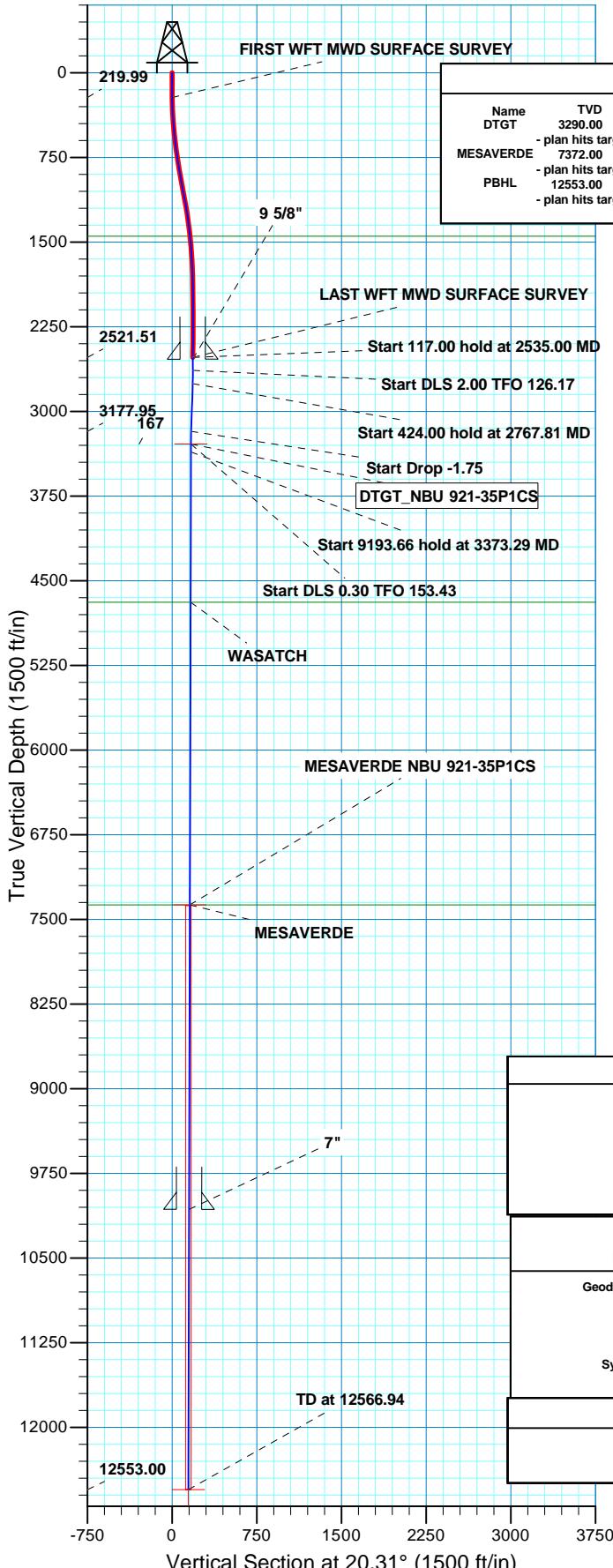
DATE: _____

RECEIVED _____

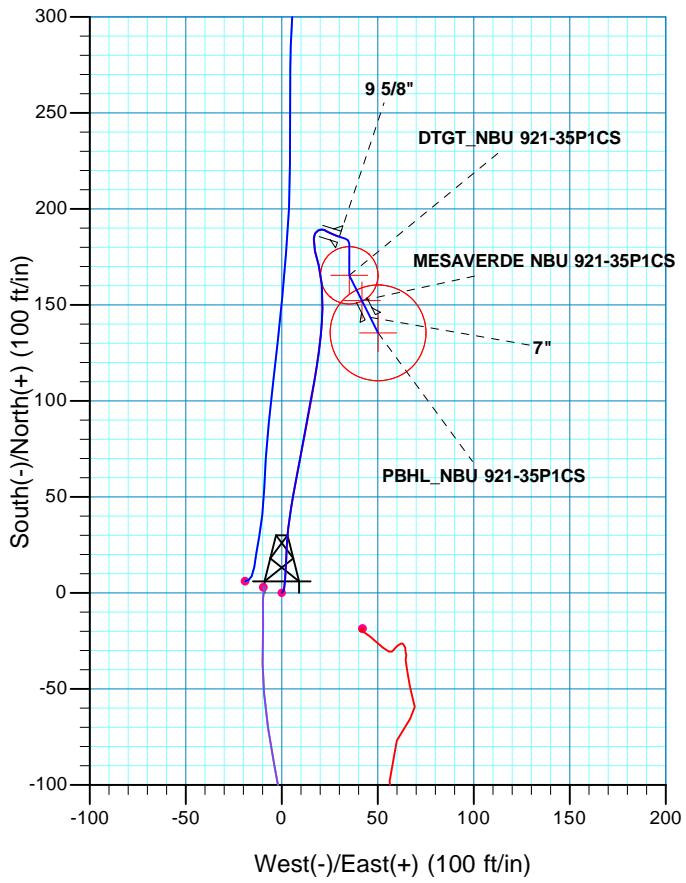
WELL DETAILS: NBU 921-35P1CS
 GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)

+N-S 0.00	+E-W 0.00	Northing 14524968.42	Easting 2057581.88	Latitude 39° 59' 14.914 N	Longitude 109° 30' 38.650 W
--------------	--------------	-------------------------	-----------------------	------------------------------	--------------------------------

T M Azimuths to True North
 Magnetic North: 11.10°
 Magnetic Field Strength: 52338.2snT
 Dip Angle: 65.86°
 Date: 04/08/2011
 Model: IGRF2010



DESIGN TARGET DETAILS									
Name DTGT	TVD 3290.00	+N-S 165.48	+E-W 35.15	Northing 14525134.47	Easting 2057614.26	Latitude 39° 59' 16.549 N	Longitude 109° 30' 38.198 W	Shape Circle (Radius: 15.00)	
MESAVERDE	- plan hits target center 7372.00	152.32	41.73	14525121.42	2057621.06	39° 59' 16.419 N	109° 30' 38.113 W	Point	
PBHL	- plan hits target center 12553.00	135.48	50.15	14525104.73	2057629.76	39° 59' 16.253 N	109° 30' 38.005 W	Circle (Radius: 25.00)	



SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	
2535.00	1.96	107.65	2521.51	185.70	29.47	0.00	0.00	184.39	
2652.00	1.96	107.65	2638.44	184.49	33.28	0.00	0.00	184.57	
2767.81	1.96	180.07	2754.20	181.91	35.17	2.00	126.17	182.81	
3191.81	1.96	180.07	3177.95	167.40	35.15	0.00	0.00	169.19	
3303.88	0.00	0.00	3290.00	165.48	35.15	1.75	180.00	167.39	DTGT_NBU 921-35P1CS
3373.29	0.21	153.43	3359.41	165.37	35.21	0.30	153.43	167.31	
12566.94	0.21	153.43	12553.00	135.48	50.15	0.00	0.00	144.47	PBHL_NBU 921-35P1CS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 Location: SECTION 35 T9S R21E
 System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
1448.00	1460.30	GREEN RIVER
4691.00	4704.89	WASATCH
7372.00	7385.91	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2538.50	2552.00	9 5/8"	9.625
10070.00	10083.92	7"	7.000

RECEIVED Jun. 06, 2011

Plan: PLAN #3 (NBU 921-35P1CS/OH)

Created By: RobertScott Date: 11:17, June 01 2011



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UNITAH_NBU 921-35P PAD

NBU 921-35P1CS

OH

Plan: PLAN #3

Standard Planning Report

01 June, 2011



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UNITAH_NBU 921-35P PAD, SECTION 35 T9S R21E				
Site Position:		Northing:	14,524,968.43 usft	Latitude:	39° 59' 14.914 N
From:	Lat/Long	Easting:	2,057,581.88 usft	Longitude:	109° 30' 38.650 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	NBU 921-35P1CS, 778' FSL 547' FEL				
Well Position	+N/S +E/W	0.00 ft	Northing: Easting:	14,524,968.43 usft 2,057,581.88 usft	Latitude: Longitude:
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:
					5,098.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/08/2011	11.10	65.86	52,338

Design	PLAN #3				
Audit Notes:					
Version:	Phase:		PLAN	Tie On Depth:	
Vertical Section:	Depth From (TVD) (ft)		+N/S (ft)	+E/W (ft)	Direction (°)
	0.00		0.00	0.00	20.31

Plan Sections									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)
2,535.00	1.96	107.65	2,521.51	185.70	29.47	0.00	0.00	0.00	0.00
2,652.00	1.96	107.65	2,638.44	184.49	33.28	0.00	0.00	0.00	0.00
2,767.81	1.96	180.07	2,754.20	181.91	35.17	2.00	0.00	62.53	126.17
3,191.81	1.96	180.07	3,177.95	167.40	35.15	0.00	0.00	0.00	0.00
3,303.88	0.00	0.00	3,290.00	165.48	35.15	1.75	-1.75	0.00	180.00 DTGT_NBU 921-35P
3,373.29	0.21	153.43	3,359.41	165.37	35.21	0.30	0.30	221.06	153.43
12,566.94	0.21	153.43	12,553.00	135.48	50.15	0.00	0.00	0.00	PBHL_NBU 921-35P

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,535.00	1.96	107.65	2,521.51	185.70	29.47	184.39	0.00	0.00	0.00	
Start 117.00 hold at 2535.00 MD										
2,552.00	1.96	107.65	2,538.50	185.53	30.03	184.41	0.00	0.00	0.00	
9 5/8"										
2,600.00	1.96	107.65	2,586.47	185.03	31.59	184.49	0.00	0.00	0.00	
2,652.00	1.96	107.65	2,638.44	184.49	33.28	184.57	0.00	0.00	0.00	
Start DLS 2.00 TFO 126.17										
2,700.00	1.59	136.74	2,686.42	183.76	34.52	184.31	2.00	-0.76	60.60	
2,767.81	1.96	180.07	2,754.20	181.91	35.17	182.81	2.00	0.54	63.91	
Start 424.00 hold at 2767.81 MD										
2,800.00	1.96	180.07	2,786.37	180.81	35.17	181.77	0.00	0.00	0.00	
2,900.00	1.96	180.07	2,886.31	177.38	35.16	178.56	0.00	0.00	0.00	
3,000.00	1.96	180.07	2,986.25	173.96	35.16	175.35	0.00	0.00	0.00	
3,100.00	1.96	180.07	3,086.20	170.54	35.16	172.14	0.00	0.00	0.00	
3,191.81	1.96	180.07	3,177.95	167.40	35.15	169.19	0.00	0.00	0.00	
Start Drop -1.75										
3,200.00	1.82	180.07	3,186.14	167.13	35.15	168.94	1.75	-1.75	0.00	
3,300.00	0.07	180.07	3,286.12	165.48	35.15	167.39	1.75	-1.75	0.00	
3,303.88	0.00	0.00	3,290.00	165.48	35.15	167.39	1.75	-1.75	0.00	
Start DLS 0.30 TFO 153.43 - DTGT_NBU 921-35P1CS										
3,373.29	0.21	153.43	3,359.41	165.37	35.21	167.31	0.30	0.30	0.00	
Start 1913.66 hold at 3373.29 MD										
3,400.00	0.21	153.43	3,386.12	165.28	35.25	167.24	0.00	0.00	0.00	
3,500.00	0.21	153.43	3,486.12	164.96	35.41	166.99	0.00	0.00	0.00	
3,600.00	0.21	153.43	3,586.12	164.63	35.57	166.74	0.00	0.00	0.00	
3,700.00	0.21	153.43	3,686.12	164.31	35.74	166.49	0.00	0.00	0.00	
3,800.00	0.21	153.43	3,786.12	163.98	35.90	166.25	0.00	0.00	0.00	
3,900.00	0.21	153.43	3,886.12	163.66	36.06	166.00	0.00	0.00	0.00	
4,000.00	0.21	153.43	3,986.12	163.33	36.23	165.75	0.00	0.00	0.00	
4,100.00	0.21	153.43	4,086.12	163.01	36.39	165.50	0.00	0.00	0.00	
4,200.00	0.21	153.43	4,186.11	162.68	36.55	165.25	0.00	0.00	0.00	
4,300.00	0.21	153.43	4,286.11	162.36	36.71	165.00	0.00	0.00	0.00	
4,400.00	0.21	153.43	4,386.11	162.03	36.88	164.75	0.00	0.00	0.00	
4,500.00	0.21	153.43	4,486.11	161.71	37.04	164.51	0.00	0.00	0.00	
4,600.00	0.21	153.43	4,586.11	161.38	37.20	164.26	0.00	0.00	0.00	
4,700.00	0.21	153.43	4,686.11	161.05	37.36	164.01	0.00	0.00	0.00	
4,704.89	0.21	153.43	4,691.00	161.04	37.37	164.00	0.00	0.00	0.00	
WASATCH										
4,800.00	0.21	153.43	4,786.11	160.73	37.53	163.76	0.00	0.00	0.00	
4,900.00	0.21	153.43	4,886.11	160.40	37.69	163.51	0.00	0.00	0.00	
5,000.00	0.21	153.43	4,986.11	160.08	37.85	163.26	0.00	0.00	0.00	
5,100.00	0.21	153.43	5,086.11	159.75	38.01	163.02	0.00	0.00	0.00	
5,200.00	0.21	153.43	5,186.11	159.43	38.18	162.77	0.00	0.00	0.00	
5,300.00	0.21	153.43	5,286.11	159.10	38.34	162.52	0.00	0.00	0.00	
5,400.00	0.21	153.43	5,386.11	158.78	38.50	162.27	0.00	0.00	0.00	
5,500.00	0.21	153.43	5,486.11	158.45	38.66	162.02	0.00	0.00	0.00	
5,600.00	0.21	153.43	5,586.11	158.13	38.83	161.77	0.00	0.00	0.00	
5,700.00	0.21	153.43	5,686.10	157.80	38.99	161.53	0.00	0.00	0.00	
5,800.00	0.21	153.43	5,786.10	157.48	39.15	161.28	0.00	0.00	0.00	
5,900.00	0.21	153.43	5,886.10	157.15	39.31	161.03	0.00	0.00	0.00	
6,000.00	0.21	153.43	5,986.10	156.83	39.48	160.78	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,100.00	0.21	153.43	6,086.10	156.50	39.64	160.53	0.00	0.00	0.00
6,200.00	0.21	153.43	6,186.10	156.18	39.80	160.28	0.00	0.00	0.00
6,300.00	0.21	153.43	6,286.10	155.85	39.96	160.04	0.00	0.00	0.00
6,400.00	0.21	153.43	6,386.10	155.53	40.13	159.79	0.00	0.00	0.00
6,500.00	0.21	153.43	6,486.10	155.20	40.29	159.54	0.00	0.00	0.00
6,600.00	0.21	153.43	6,586.10	154.88	40.45	159.29	0.00	0.00	0.00
6,700.00	0.21	153.43	6,686.10	154.55	40.61	159.04	0.00	0.00	0.00
6,800.00	0.21	153.43	6,786.10	154.23	40.78	158.79	0.00	0.00	0.00
6,900.00	0.21	153.43	6,886.10	153.90	40.94	158.54	0.00	0.00	0.00
7,000.00	0.21	153.43	6,986.10	153.58	41.10	158.30	0.00	0.00	0.00
7,100.00	0.21	153.43	7,086.10	153.25	41.26	158.05	0.00	0.00	0.00
7,200.00	0.21	153.43	7,186.09	152.93	41.43	157.80	0.00	0.00	0.00
7,300.00	0.21	153.43	7,286.09	152.60	41.59	157.55	0.00	0.00	0.00
7,385.91	0.21	153.43	7,372.00	152.32	41.73	157.34	0.00	0.00	0.00
MESAVERDE - MESAVERDE NBU 921-35P1CS									
7,400.00	0.21	153.43	7,386.09	152.28	41.75	157.30	0.00	0.00	0.00
7,500.00	0.21	153.43	7,486.09	151.95	41.91	157.05	0.00	0.00	0.00
7,600.00	0.21	153.43	7,586.09	151.63	42.08	156.81	0.00	0.00	0.00
7,700.00	0.21	153.43	7,686.09	151.30	42.24	156.56	0.00	0.00	0.00
7,800.00	0.21	153.43	7,786.09	150.98	42.40	156.31	0.00	0.00	0.00
7,900.00	0.21	153.43	7,886.09	150.65	42.56	156.06	0.00	0.00	0.00
8,000.00	0.21	153.43	7,986.09	150.33	42.73	155.81	0.00	0.00	0.00
8,100.00	0.21	153.43	8,086.09	150.00	42.89	155.56	0.00	0.00	0.00
8,200.00	0.21	153.43	8,186.09	149.68	43.05	155.32	0.00	0.00	0.00
8,300.00	0.21	153.43	8,286.09	149.35	43.21	155.07	0.00	0.00	0.00
8,400.00	0.21	153.43	8,386.09	149.03	43.38	154.82	0.00	0.00	0.00
8,500.00	0.21	153.43	8,486.09	148.70	43.54	154.57	0.00	0.00	0.00
8,600.00	0.21	153.43	8,586.09	148.38	43.70	154.32	0.00	0.00	0.00
8,700.00	0.21	153.43	8,686.09	148.05	43.86	154.07	0.00	0.00	0.00
8,800.00	0.21	153.43	8,786.08	147.73	44.03	153.83	0.00	0.00	0.00
8,900.00	0.21	153.43	8,886.08	147.40	44.19	153.58	0.00	0.00	0.00
9,000.00	0.21	153.43	8,986.08	147.08	44.35	153.33	0.00	0.00	0.00
9,100.00	0.21	153.43	9,086.08	146.75	44.51	153.08	0.00	0.00	0.00
9,200.00	0.21	153.43	9,186.08	146.43	44.68	152.83	0.00	0.00	0.00
9,300.00	0.21	153.43	9,286.08	146.10	44.84	152.58	0.00	0.00	0.00
9,400.00	0.21	153.43	9,386.08	145.78	45.00	152.34	0.00	0.00	0.00
9,500.00	0.21	153.43	9,486.08	145.45	45.16	152.09	0.00	0.00	0.00
9,600.00	0.21	153.43	9,586.08	145.13	45.33	151.84	0.00	0.00	0.00
9,700.00	0.21	153.43	9,686.08	144.80	45.49	151.59	0.00	0.00	0.00
9,800.00	0.21	153.43	9,786.08	144.48	45.65	151.34	0.00	0.00	0.00
9,900.00	0.21	153.43	9,886.08	144.15	45.81	151.09	0.00	0.00	0.00
10,000.00	0.21	153.43	9,986.08	143.83	45.98	150.84	0.00	0.00	0.00
10,083.92	0.21	153.43	10,070.00	143.56	46.11	150.64	0.00	0.00	0.00
7"									
10,100.00	0.21	153.43	10,086.08	143.50	46.14	150.60	0.00	0.00	0.00
10,200.00	0.21	153.43	10,186.08	143.18	46.30	150.35	0.00	0.00	0.00
10,300.00	0.21	153.43	10,286.07	142.85	46.46	150.10	0.00	0.00	0.00
10,400.00	0.21	153.43	10,386.07	142.53	46.63	149.85	0.00	0.00	0.00
10,500.00	0.21	153.43	10,486.07	142.20	46.79	149.60	0.00	0.00	0.00
10,600.00	0.21	153.43	10,586.07	141.88	46.95	149.35	0.00	0.00	0.00
10,700.00	0.21	153.43	10,686.07	141.55	47.12	149.11	0.00	0.00	0.00
10,800.00	0.21	153.43	10,786.07	141.23	47.28	148.86	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,900.00	0.21	153.43	10,886.07	140.90	47.44	148.61	0.00	0.00	0.00
11,000.00	0.21	153.43	10,986.07	140.58	47.60	148.36	0.00	0.00	0.00
11,100.00	0.21	153.43	11,086.07	140.25	47.77	148.11	0.00	0.00	0.00
11,200.00	0.21	153.43	11,186.07	139.93	47.93	147.86	0.00	0.00	0.00
11,300.00	0.21	153.43	11,286.07	139.60	48.09	147.62	0.00	0.00	0.00
11,400.00	0.21	153.43	11,386.07	139.28	48.25	147.37	0.00	0.00	0.00
11,500.00	0.21	153.43	11,486.07	138.95	48.42	147.12	0.00	0.00	0.00
11,600.00	0.21	153.43	11,586.07	138.63	48.58	146.87	0.00	0.00	0.00
11,700.00	0.21	153.43	11,686.07	138.30	48.74	146.62	0.00	0.00	0.00
11,800.00	0.21	153.43	11,786.06	137.98	48.90	146.37	0.00	0.00	0.00
11,900.00	0.21	153.43	11,886.06	137.65	49.07	146.13	0.00	0.00	0.00
12,000.00	0.21	153.43	11,986.06	137.33	49.23	145.88	0.00	0.00	0.00
12,100.00	0.21	153.43	12,086.06	137.00	49.39	145.63	0.00	0.00	0.00
12,200.00	0.21	153.43	12,186.06	136.68	49.55	145.38	0.00	0.00	0.00
12,300.00	0.21	153.43	12,286.06	136.35	49.72	145.13	0.00	0.00	0.00
12,400.00	0.21	153.43	12,386.06	136.03	49.88	144.88	0.00	0.00	0.00
12,500.00	0.21	153.43	12,486.06	135.70	50.04	144.63	0.00	0.00	0.00
12,566.94	0.21	153.43	12,553.00	135.48	50.15	144.47	0.00	0.00	0.00
TD at 12566.94 - PBHL_NBU 921-35P1CS									

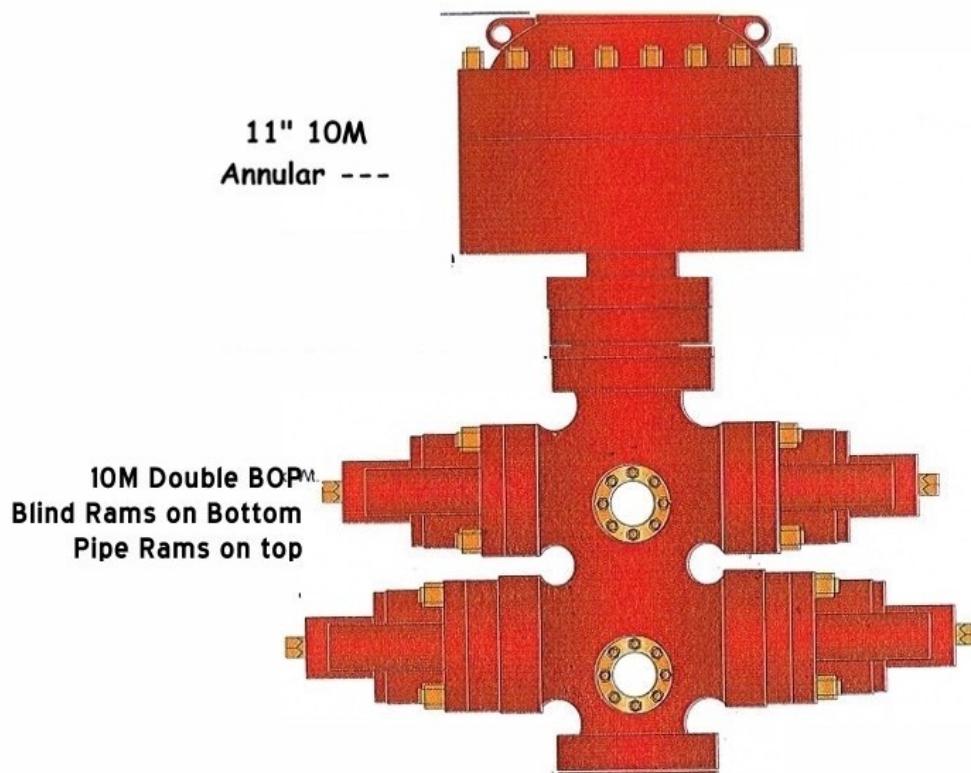
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
DTGT_NBU 921-35P1C - plan hits target center - Circle (radius 15.00)	0.00	0.00	3,290.00	165.48	35.15	14,525,134.47	2,057,614.26	39° 59' 16.549 N	109° 30' 38.198 W
MESAVERDE NBU 921- - plan hits target center - Point	0.00	0.00	7,372.00	152.32	41.73	14,525,121.43	2,057,621.06	39° 59' 16.419 N	109° 30' 38.113 W
PBHL_NBU 921-35P1C: - plan hits target center - Circle (radius 25.00)	0.00	0.00	12,553.00	135.48	50.15	14,525,104.73	2,057,629.76	39° 59' 16.253 N	109° 30' 38.005 W

Casing Points									
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)					
2,552.00	2,538.50	9 5/8"		9.625					
10,083.92	10,070.00	7"		7.000					

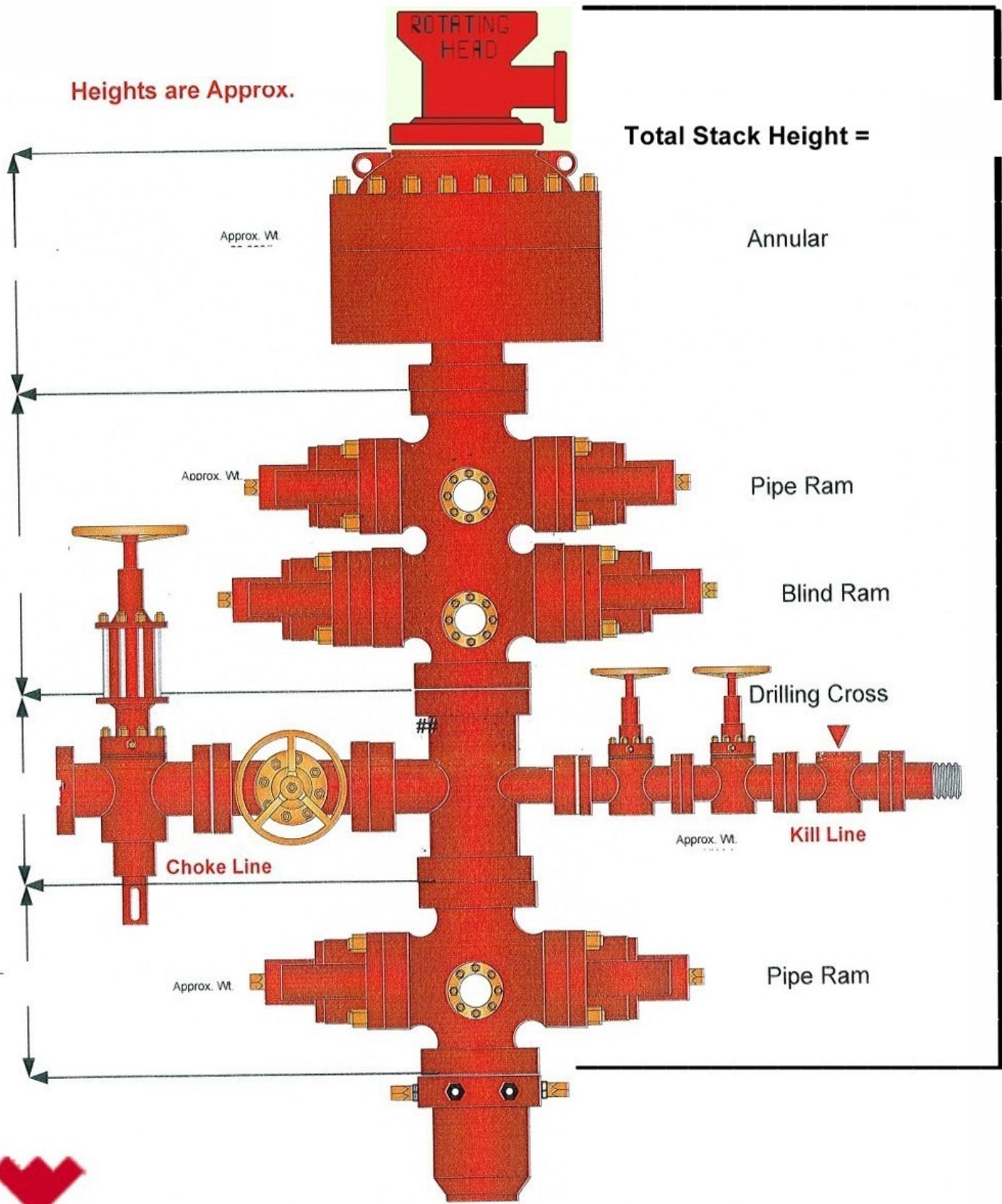
Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	North Reference:	True
Well:	NBU 921-35P1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

Formations						
Measured Depth (ft)	Vertical Depth (ft)		Name	Lithology	Dip (°)	Dip Direction (°)
4,704.89	4,691.00	WASATCH			0.00	
7,385.91	7,372.00	MESAVERDE			0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/S (ft)	+E/W (ft)		
2,535.00	2,521.51	185.70	29.47	Start 117.00 hold at 2535.00 MD	
2,652.00	2,638.44	184.49	33.28	Start DLS 2.00 TFO 126.17	
2,767.81	2,754.20	181.91	35.17	Start 424.00 hold at 2767.81 MD	
3,191.81	3,177.95	167.40	35.15	Start Drop -1.75	
3,303.88	3,290.00	165.48	35.15	Start DLS 0.30 TFO 153.43	
3,373.29	3,359.41	165.37	35.21	Start 9193.66 hold at 3373.29 MD	
12,566.94	12,553.00	135.48	50.15	TD at 12566.94	



Weatherford®



Weatherford®



Kerr-McGee Oil & Gas Onshore LP
A wholly owned subsidiary of Anadarko Petroleum Corporation
1099 18th Street, Suite 1800
Denver, CO 80202
720-929-6000 (main)

May 23, 2011

Mrs. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

RE: NBU 921-35P1CS (Mancos Core Well)

T9S-R21E

Section 35: SESE

Surface: 778' FSL, 547' FEL

Bottom Hole: 913' FSL, 547' FEL

Uintah County, Utah

Dear Mrs. Mason:

Kerr-McGee Oil & Gas Onshore LP has submitted a sundry to drill the captioned well to core the Mancos formation. The well will not be completed as a producing well in the Mancos formation. Instead, the core sample will provide necessary scientific data regarding the Mancos formation and its' properties for potential commercial oil and gas production. The well is located at an exception location according to State of Utah Administrative Code Rule R649-3-2. This rule requires that any oil and gas well not subject to special orders of the board establishing drilling units shall be located in the center of a 40 acre quarter-quarter section with a tolerance of 200 feet in any direction from the center location, a "window" 400 feet square. The surface location of this well location is outside of this prescribed boundary. Kerr-McGee owns 100% of the leasehold in the offset lands and has no objection to the exception location.

Kerr-McGee respectfully requests your approval of this exception location. If you have any questions or require any additional information, please do not hesitate to call me at 720-929-6351.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Robert T. Spencer'.

Robert T. Spencer
Senior Landman

cc: Chris Latimer

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# PIONEER 54
Submitted By BRAD PEDERSEN Phone Number 435-790-2921
Well Name/Number NBU 921-35P1CS
Qtr/Qtr SE/4 SE/4 Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43047513810000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 6/24/2011 SPUD FOR INTERMEDIATE
CASING @ 18:00 AM PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

RECEIVED

JUN 28 2011

DIV. OF OIL, GAS & MINING

Date/Time _____ - AM PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time _____ AM PM

Remarks SPUD FOR INTERMEDIATE CASING

CONFIDENTIAL**Carol Daniels - STATE NOTICE PIONEER 54 NBU 921-35P1CS**

From: "Anadarko - Pioneer 54"
To: , "DAVID HACKFORD"
Date: 6/25/2011 12:32 AM
Subject: STATE NOTICE PIONEER 54 NBU 921-35P1CS

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435- 790-2921
Well Name/Number NBU 921-35P1CS
Qtr/Qtr SE/4 SE/4 Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43047513810000

Casing – Time casing run starts, not cementing times.

Production Casing

Other

RECEIVED

Date/Time _____ AM PM

JUN 29 2011

DIV. OF OIL, GAS & MINING

BOPE

Initial BOPE test at surface casing point

Other

Date/Time 6/25/11 08:00 AM PM

Rig Move

Location To: MOVE TO 921-35P1CS

Date/Time 6/24/11 14:00 AM PM

CONFIDENTIAL

Carol Daniels - STATE NOTICE, PIONEER 54

From: "Anadarko - Pioneer 54"
To: , "DAVID HACKFORD"
Date: 7/3/2011 10:20 PM
Subject: STATE NOTICE, PIONEER 54

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435- 790-2921
Well Name/Number NBU 921-35P1CS
Qtr/Qtr SE/4 SE/4 Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43047513810000

Casing – Time casing run starts, not cementing times.

Production Casing

Other

Date/Time 7/4/11 8 AM PM

BOPE

Initial BOPE test at surface casing point

Other

RECEIVED

JUL 05 2011

Rig Move

Location To:

DIV. OF OIL, GAS & MINING

CONFIDENTIAL**Carol Daniels - STATE NOTICE, BOPE TEST TO 10,000 PSI**

From: "Anadarko - Pioneer 54"
To: , "DAVID HACKFORD"
Date: 7/3/2011 10:29 PM
Subject: STATE NOTICE, BOPE TEST TO 10,000 PSI

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435- 790-2921
Well Name/Number NBU 921-35P1CS
Qtr/Qtr SE/4 SE/4 Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43047513810000

Casing – Time casing run starts, not cementing times.

Production Casing

Other

Date/Time _____ AM PM

BOPE

Initial BOPE test at surface casing point

Other

RECEIVED

JUL 05 2011

DIV. OF OIL, GAS & MINING

Date/Time 7/5/11 6 AM PM

Rig Move

Location To: _____

Date/Time _____ AM PM

Remarks TEST BOPE TO 10,000 PSI

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9		
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582		
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 921-35P1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047513810000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
				COUNTY: UNTAH
				STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/22/2011		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> DRILLING REPORT <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> Report Date: <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2580' TO 12,721' ON JULY 19, 2011. RAN 7" 26# P-110 INTERMEDIATE CASING TO 10,062'. CEMENTED INTERMEDIATE CASING. RAN PACKOFF TBG HANGER FROM 9805-9831'. RAN 4.5" 11.6" PRODUCTION LINER FROM 9831' TO 12,719'. CEMENTED PRODUCTION LINER. RELEASED PIONEER RIG 54 ON JULY 22, 2011 @ 00:00 HRS. DETAILS OF CEMENT JOBS WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.				
Accepted by the Utah Division of Oil, Gas and Mining Date: <u>08/01/2011</u> By: <u>Dan J. Johnson</u>				
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst	
SIGNATURE N/A			DATE 7/25/2011	

RECEIVED Jul. 25, 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 921-35P1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047513810000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		COUNTY: UINTAH
TYPE OF SUBMISSION <ul style="list-style-type: none"> <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/22/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date: 		TYPE OF ACTION <ul style="list-style-type: none"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change Well Name <input type="checkbox"/> Convert Well Type <input type="checkbox"/> New Construction <input type="checkbox"/> Plug Back <input type="checkbox"/> Recomplete Different Formation <input type="checkbox"/> Temporary Abandon <input type="checkbox"/> Water Disposal <input type="checkbox"/> APD Extension <p>OTHER: <input type="text" value="RIG REL. - ACTS PIT"/></p>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2580' TO 12,721' ON JULY 19, 2011. RAN 7" 26# P-110 INTERMEDIATE CASING TO 10,062'. CEMENTED INTERMEDIATE CASING. RAN PACKOFF TBG HANGER FROM 9805-9831'. RAN 4.5" 11.6" PRODUCTION LINER FROM 9831' TO 12,719'. CEMENTED PRODUCTION LINER. RELEASED PIONEER RIG 54 ON JULY 22, 2011 @ 00:00 HRS. DETAILS OF CEMENT JOBS WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 7/25/2011	

CONFIDENTIAL

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By DARWYNE CADY Phone Number 435- 790-2921
Well Name/Number NBU 921-35P1CS
Qtr/Qtr SE/4 SE/4 Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43047513810000

Casing – Time casing run starts, not cementing times.

- Production Casing
 Other

Date/Time 7/20/11 AM PM

BOPE

- Initial BOPE test at surface casing point
 Other

Date/Time 6 AM PM

RECEIVED

JUL 19 2011

DIV. OF OIL, GAS & MINING

Rig Move

Location To:

Date/Time AM PM

Remarks RUN AND CEMENT PROD LINER

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																																			
SUNDRY NOTICES AND REPORTS ON WELLS																																					
<p>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</p>		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582																																			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES																																			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 921-35P1CS																																			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047513810000																																			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UNTAH STATE: UTAH																																			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																					
<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">TYPE OF SUBMISSION</th> <th colspan="3" style="text-align: center;">TYPE OF ACTION</th> </tr> </thead> <tbody> <tr> <td rowspan="10"> <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/23/2011 </td> <td style="text-align: center;"><input type="checkbox"/> ACIDIZE</td> <td style="text-align: center;"><input type="checkbox"/> ALTER CASING</td> <td style="text-align: center;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="text-align: center;"><input type="checkbox"/> CHANGE TUBING</td> <td style="text-align: center;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="text-align: center;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="text-align: center;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> DEEPEN</td> <td style="text-align: center;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="text-align: center;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="text-align: center;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="text-align: center;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="text-align: center;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="text-align: center;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="text-align: center;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="text-align: center;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> TUBING REPAIR</td> <td style="text-align: center;"><input type="checkbox"/> VENT OR FLARE</td> <td style="text-align: center;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="text-align: center;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="text-align: center;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="text-align: center;"><input checked="" type="checkbox"/> OTHER</td> <td style="text-align: center;">OTHER: <input type="text" value="DFIT OPERATION"/></td> </tr> </tbody> </table>			TYPE OF SUBMISSION	TYPE OF ACTION			<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/23/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="DFIT OPERATION"/>
TYPE OF SUBMISSION	TYPE OF ACTION																																				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/23/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR																																		
	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME																																		
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE																																		
	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION																																		
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK																																		
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION																																		
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON																																		
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL																																		
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION																																		
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="DFIT OPERATION"/>																																		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p>The Operator requests authorization to commence completions operations on the subject well. The initial completions operation consists of a DFIT procedure. Please see the attached procedure for your review. Please note that the operator received approval to drill this well as a Mancos Monitor well. The operator now plans to complete this well in the Mancos formation and produce only the Mancos formation. Thank you.</p>																																					
Approved by the Utah Division of Oil, Gas and Mining Date: <u>09/26/2011</u> By: <u>Darrell Dunt</u>																																					
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100																																			
TITLE Regulatory Analyst																																					
SIGNATURE N/A		DATE 9/23/2011																																			

RECEIVED Sep. 23, 2011

Greater Natural Buttes Unit



NBU 921-35P1CS DFIT PROCEDURE

**DATE:9/7/2011
AFE#:2049315
API#:4304751381
USER ID#:CKW374**

COMPLETIONS ENGINEER: JAMES PAGE, Denver, CO
720-929-6747 (Office)
303-501-2731 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: NBU 921-35P1CS
 Location: SW NE SE SE SEC35 T9S R21E
 Uintah County, UT
 Date: 9/7/2011

LAT: **39.987441** LONG: **-109.511422** Surface COORDINATE: **NAD83**
 ELEVATIONS: 5098' GL 5117' KB

TOTAL DEPTH: 12721'
SURFACE CASING: PBTD: 12671'
PRODUCTION CASING: 9 5/8", 40# J-55 LT&C @ 2552'
 7", 26#, P-110 @ 10062'
 4.5", 11.6# P-110 @ 9831-12719'

Production Liner Marker Joints:
10805-10826, 12357-12378'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
7" 26# P-110	9,960	6,210	6.151"	.0375	1.6070
4 1/2" 11.6# P- 110	10,691	7580	3.875"	0.0155	0.6528
2 3/8" by 7" Annulus				.0328	1.4078
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1420' Green River Top
 1767' Bird's Nest Top
 2230' Mahogany Top
 4690' Wasatch Top
 7362' Mesaverde Top

BOTTOMS:

7362' Wasatch Bottom
 10,506' Mesaverde Bottom (TD)

CBL indicates good cement below 1050'

GENERAL:

- All perforation depths are from Schlumberger OH log's dated 7/19/2011
- Pump scale inhibitor at 3 gal/1000 during pad and sand ramp up to 1.25 ppg. Pump at 10 gal/1000 during flush.
- Maximum surface pressure **9000 psi**.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

PROCEDURE:

1. NU and test BOPs. RIH 3 7/8" mill and clean out to PBTD @ ~12,671' if possible, or to 12,430' at a minimum. Circulate hole clean with recycled water. POOH.
2. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to **9000 psi** for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 7" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
3. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
Mancos	12254	12256	4	8
4. Perform an IFIT test. Pump 50 BBLs at 7-10 BPM. Dump bail acid if needed to breakdown perfs. After pumping the above volume, shut well in and monitor for 4 days, taking 1 second pressure readings using Halliburton gauge.
5. **RDMO - Leave surface casing valve open. Monitor and report any flow from surface casing.**

For design questions, please call
James Page, Denver, CO
720 929 6747 (Office)
303 501 2731 (Cell)

For field implementation questions, please call
Jeff Samuels Vernal, UT
435-781-9770 (Office)

C

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
 Address: P.O. Box 173779
 city DENVER
 state CO zip 80217

Operator Account Number: N 2995
 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751381	NBU 921-35P1CS		SESE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
E	3900	18341	4/23/2011			9/38/11	
Comments: This well will be completed and will only produce from the Mancos formation. Please assign this well a new entity number. <i>BHL = SESE</i>							

MNCS

CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

SEP 28 2011

(5/2000)

ANDY LYTHE

Name (Please Print)

Signature

REGULATORY ANALYST

9/28/2011

Title

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 921-35P1CS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047513810000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/14/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The Operator has completed the DFIT procedure on the subject well. The Operator requests approval to finish completion operations as outlined in the attached procedure. Thank you.			
Approved by the Utah Division of Oil, Gas and Mining			
Date: <u>10/19/2011</u> By: <u>Darrell Dunt</u>			
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst	
SIGNATURE N/A	DATE 10/13/2011		

Greater Natural Buttes Unit



NBU 921-35P1CS COMPLETIONS PROCEDURE

**DATE:10/10/2011
AFE#:2049315
API#:4304751381
USER ID#:CKW374**

COMPLETIONS ENGINEER: JAMES PAGE, Denver, CO
720-929-6747 (Office)
303-501-2731 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: NBU 921-35P1CS
Location: SW NE SE SE SEC35 T9S R21E
Uintah County, UT
Date: 10/10/2011

LAT: 39.987441 **LONG: -109.511422** **Surface COORDINATE: NAD83**
ELEVATIONS: 5098' GL 5117' KB

TOTAL DEPTH: 12721' **PBTD:** 12671'
SURFACE CASING: 9 5/8", 40# J-55 LT&C @ 2552'
PRODUCTION CASING: 7", 26#, P-110 @ 10062'
 4.5", 11.6# P-110 @ 9831-12719'

Production Liner Marker Joints:
10805-10826, 12357-12378'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
7" 26# P-110	9,960	6,210	6.151"	.0375	1.6070
4 1/2" 11.6# P- 110	10,691	7580	3.875"	0.0155	0.6528
2 3/8" by 7" Annulus				.0328	1.4078
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1420' Green River Top
 1767' Bird's Nest Top
 2230' Mahogany Top
 4690' Wasatch Top
 7362' Mesaverde Top

BOTTOMS:

7362' Wasatch Bottom
 10,506' Mesaverde Bottom (TD)

CBL indicates good cement below 1050'

GENERAL:

- All perforation depths are from Schlumberger OH log's dated 7/19/2011
- Maximum surface pressure **9000 psi.**
- Procedure calls for **2 CBP's (10000 psi).**
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.

- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 High Strength Proppant, **Slickwater frac**.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **IFIT Previously Performed 9/28/2011**

Existing perforations

Zone	From	To	spf	# of shots
MANCOS	12254	12256	4	8

PROCEDURE:

1. NU and test BOPs. RIH 3 7/8" mill and clean out to PBTD @ ~12,671' if possible, or to 12,430' at a minimum. Circulate hole clean with recycled water. POOH.
2. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to **9000 psi** for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 7" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
3. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MANCOS	12256	12257	4	4
MANCOS	12349	12352	4	12
MANCOS	12470	12473	4	12
4. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~12254' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
5. Set 10,000 psi CBP at ~10998'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MANCOS	10843	10853	3	30
MANCOS	10944	10948	3	12
6. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~10843' flush only with recycled water.
7. Set 10000 psi CBP at ~10793'

8. ND Frac Valves, NU and Test BOPs.
 9. TIH with 3 7/8" bit, pump off sub, SN and tubing.
 10. Drill plugs and clean out to PBTD. Shear off bit and land tubing at $\pm 10,500'$ unless indicated otherwise by the well's behavior. The well will be commingled at this time.
 11. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
- 12. RDMO - Leave surface casing valve open. Monitor and report any flow from surface casing.**

For design questions, please call

**James Page, Denver, CO
720 929 6747 (Office)
303 501 2731 (Cell)**

For field implementation questions, please call

**Jeff Samuels Vernal, UT
435-781-9770 (Office)**

<u>Service Company Supplied Chemicals - Job Totals</u>				
Friction Reducer	143	gals @	0.5	GPT
Surfactant	287	gals @	1.0	GPT
Clay Stabilizer	287	gals @	1.0	GPT
15% Hcl	500	gals @	250	gal/stg
Iron Control for acid	3	gals @	5.0	GPT of aci
Surfactant for acid	1	gals @	1.0	GPT of aci
Corrosion Inhibitor for acid	1	gals @	2.0	GPT of aci

Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	890	gals pumped per schedule above		
Biocide	143	gals @	0.5	GPT

Name NBU 921-35P1CS
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	MANCOS	12256	12257	4	4		12244	to	12267
	MANCOS	12349	12352	4	12		12339	to	12362
	MANCOS	12470	12473	4	12		12382	to	12405
	MANCOS								
	MANCOS								
	MANCOS								
	MANCOS								
	# of Perfs/stage				28		CBP DEPTH	10,998	
2	MANCOS	10843	10853	3	30		10833	to	10863
	MANCOS	10944	10948	3	12		10944	to	10948
	MANCOS								
	MANCOS								
	MANCOS								
	MANCOS								
	MANCOS								
	# of Perfs/stage				42		CBP DEPTH	10,793	
	Totals				78				

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		
<p>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</p>		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35P1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513810000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
TYPE OF SUBMISSION		TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/12/2011		OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/12/2011 AT 1700 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock		PHONE NUMBER 435 781-7024
TITLE Regulatory Analyst		
SIGNATURE N/A		DATE 11/15/2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED **CONFIDENTIAL**
FEB 01 2012

FORM 8

RECOMMENDED REPORT
(highlight changes)

DIV. OF OIL, GAS & MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582					
b. TYPE OF WORK:		NEW WELL <input checked="" type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	7. UNIT or CA AGREEMENT NAME UTU63047A				
2. NAME OF OPERATOR:		KERR MCGEE OIL & GAS ONSHORE, L.P.					8. WELL NAME and NUMBER: NBU 921-35P1CS				
3. ADDRESS OF OPERATOR:		P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217			PHONE NUMBER: (720) 929-6304		9. API NUMBER: 4304751381				
4. LOCATION OF WELL (FOOTAGES)		AT SURFACE: SESE 778 FSL 547 FEL S35, T9S, R21E					10 FIELD AND POOL, OR WILDCAT NATURAL BUTTES				
		AT TOP PRODUCING INTERVAL REPORTED BELOW: SESE 882 FSL 454 FEL S35, T9S, R21E					11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 35 9S 21E S				
14. DATE SPUNDED:		15. DATE T.D. REACHED:	16. DATE COMPLETED:	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5098 GL					
18. TOTAL DEPTH: MD 12,721 TVD 12,704		19. PLUG BACK T.D.: MD 12,672 TVD 12,655	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD						
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) SEE LIST UNDER COMMENTS IN SECTION #35.				23. WAS WELL CORED? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	(Submit analysis) (Submit report) (Submit copy)						
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
20"	14" STL	36.7#	0	40		28					
12 1/4"	9 5/8" J-55	40#	0	2,552		705		0			
8.5"	7" P-110	11.6#	0	10,062		1,168		4055			
6.125"	7" P-110	11.6#	9,805	9,831							
6.125"	4.5" P-110	11.6#	9,805	12,719		265		9845			
25. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2 3/8"	10,701										
26. PRODUCING INTERVALS					27. PERFORATION RECORD						
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A) MANCOS	10,843	12,473			10,843 12,473	0.36	78	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>			
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.											
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL										
10843 - 12473	PUMP 7,582 BBLS SLICK H2O & 242,389 LBS 30/50 OTTAWA SAND										
	2 STAGES										
29. ENCLOSED ATTACHMENTS:								30. WELL STATUS:			
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS				<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____		<input checked="" type="checkbox"/> DIRECTIONAL SURVEY	PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 11/12/2011	TEST DATE: 11/13/2011	HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 2,207	WATER - BBL: 960	PROD. METHOD: FLOWING		
CHOKE SIZE: 20/64	TBG. PRESS. 1,450	CSG. PRESS. 1,800	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 2,207	WATER - BBL: 960	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1,420 1,767 2,230 4,690 7,362

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report & final survey.

Logs for NBU 921-35P1CS are as follows: Cement Volume/Gamma Ray – Caliper; Elemental Capture Spectroscopy/Gamma Ray; Hostile Natural Gamma Ray Sond; Sonic Scanner/4 Armpowered Caliper/ P&S – Anisotropy; Platform Express/Triple Combo/Gamma Ray-SP; Cement Volume/Gamma Ray-Caliper; CBL/Cement Map Image/GR/CCL

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) JAIME SCHARNOWSKA

TITLE REGULATORY ANALYST

SIGNATURE Jaime Scharnowska

DATE 1/24/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011			Spud Date: 4/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35P PAD			Rig Name No: PIONEER 54/54, CAPSTAR 310/310		
Event: DRILLING			Start Date: 4/13/2011			End Date: 7/24/2011		
Active Datum: RKB @5,117.00usft (above Mean Sea Level)				UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/30/2011	0:00 - 7:00	7.00	DRLSUR	21	C	P		WAIT ON DAY LIGHT TO SKID RIG
	7:00 - 9:00	2.00	DRLSUR	01	C	P		SKID RIG TO WELL # 3 NBU 921-35P1CS
	9:00 - 11:00	2.00	DRLSUR	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE AND PRE PARE TO SPUD
	11:00 - 12:30	1.50	DRLSUR	02	C	P		SPUD 12.25" DRILL F/ 40' - 225' GPM 600 WOB 8 - 20 ROT 45 - 55 NO LOSSES
	12:30 - 14:30	2.00	DRLSUR	06	A	P		TOOH INSTALL DIRECTIONAL TOOLS AND MWD TOOL ORIENT TOOL TO MOTOR AND TIH
	14:30 - 0:00	9.50	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 225' - 1398' AVE ROP 123 FT HR WOB 20-22 ROT 45-55 DHR 96 GPM 600 LAST SURVEY 3.19 DEG 6.63 AZI
5/1/2011	0:00 - 13:00	13.00	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 1398' - 2580' T.D. AVE ROP 90 FT HR WOB 20-22 ROT 45-55 DHR 96 GPM 600 LAST SURVEY 1.96 DEG 107.65 AZI
	13:00 - 13:30	0.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	13:30 - 18:00	4.50	DRLSUR	06	A	P		TOOH LAYING DOWN BREAK DIRECTIONAL TOOLS DOWN FOR INSPECTION BREAK MUD MOTOR AND BIT DOWN
	18:00 - 21:30	3.50	DRLSUR	12	C	P		RIG UP AND RUN 62 JTS 9 5/8 40# CASING SHOE AT 2542' BAFFLE AT 2498'
	21:30 - 23:30	2.00	DRLSUR	12	E	P		HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 50 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 280 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT . DROP PLUG ON FLY, DISPLACE W/ 192 BBLS OF WATER. 490 PSI OF LIFT @ 2 BBLS/MIN RATE. 27 BBLS OF LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. PUMP 200 SX OF 15.8# PREMIUM 3% CALC CEMENT DOWN 1" DOWN BACK SIDE. CEMENT TO SURFACE
	23:30 - 0:00	0.50	DRLSUR	14	A	P		CUT CONDUCTOR AND RIG DOWN FLOW LINE
6/24/2011	14:00 - 15:00	1.00	DRLPRO	14	A	P		RELEASE RIG @ 23:59 5/1/2011
	15:00 - 16:00	1.00	DRLPRO	01	C	P		N/D, REMOVE ROT TABLE, ROT BEAMS, ROT HEAD, & ANN
	16:00 - 0:00	8.00	DRLPRO	14	A	P		SKID RIG TO THE NBU 921-35P1CS
6/25/2011	0:00 - 14:00	14.00	DRLPRO	14	A	P		CUT OFF WELLHEAD, WELD ON NEW WELLHEAD, INSTALL 10K BOP
	14:00 - 22:30	8.50	DRLPRO	15	A	P		N/U BOPE, CHOKE/HCR VALVE, REFAB FLOW NIPPLE, INSTALL ROT BEAMS, TABLE, CENTER & LEVEL RIG, CHOKE LINE TO MANIFOLD, REFAB CHOKE LINE'S TO BUSTER & PITS & BURN PIT
	22:30 - 23:00	0.50	DRLPRO	14	B	P		HPJSM W/ RIG & TESTER, R/U & TEST RAMS TO 250 LOW - 5000 HIGH, TEST CHOKE TO 10,000, ANN 2500, CASING 1500 F/ 30 MIN
								INSALL WEAR BUSHING, PRE-SPUD INSPECTION, RECHECK RIG CENTER & LEVEL - GOOD

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS		Spud Conductor: 4/23/2011			Spud Date: 4/30/2011			
Project: UTAH-UINTAH		Site: NBU 921-35P PAD			Rig Name No: PIONEER 54/54, CAPSTAR 310/310			
Event: DRILLING		Start Date: 4/13/2011			End Date: 7/24/2011			
Active Datum: RKB @5,117.00usft (above Mean Sea Level)			UVI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								HPJSM W/ RIG & P/U CREWS, R/U & DIR TOOLS & SCRIBE
6/26/2011	0:00 - 4:00	4.00	DRLPRO	06	A	P		PU DS, R/D P/U TRUCK
	4:00 - 5:00	1.00	DRLPRO	14	B	P		INSTALL ROT RUBBER, CENTER STACK
	5:00 - 6:30	1.50	DRLPRO	02	F	P		DRLG CEMENT, F/E & OPEN HOLE TO 2590'
	6:30 - 15:30	9.00	DRLPRO	02	D	P		DRLG F/ 2590 TO 4078', 1488' @ 165.3' PH WOB / 20 - RPM 50, MM 163 SPM 240, 580 GPM, 5" LINNERS TRQ ON/OFF = 6-4 K PSI ON /OFF = 2100-1500, DIFF 300-500 PU/SO/RT = 125-110-115 SLIDE = 136' IN 1.84 HRS = 73.9' PH ROT = 1352' IN 7.16 HRS = 188.8' PH MW 8.4, VIS 26 CIRC RESERVE PIT NO FLARE SERVICE RIG
6/27/2011	15:30 - 16:00	0.50	DRLPRO	07	A	P		DRLG F/ 4078 TO 5433, 1355' @ 169.4' PH WOB / 20 - RPM 50, MM 163 SPM 240, 580 GPM, 5" LINNERS TRQ ON/OFF =8-6 PSI ON /OFF 2500 - 2000 PU/SO/RT = 146-128-138 SLIDE = 75' IN 1.16 HRS = 64.6' PH ROT = 1280' IN 6.84 HRS = 187.1' PH MW 8.4, VIS 26 CIRC RESERVE PIT 5' FLARE @ 4450'
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRLG F/ 5433 TO 6366', 933' @ 60.2' PH WOB / 20-22- RPM 50, MM 163 SPM 240, 580 GPM, 5" LINNERS TRQ ON/OFF =8-6 K PSI ON/OFF 2800-2400, DIFF 250-500 PU/SO/RT = 175-150-160 SLIDE = 157' IN 4.5 HRS = 34.8' PH ROT = 776' IN 11 HRS = 70.5' PH MW 10, VIS 34, NO LOSS NO FLARE, VENTING BUSTER 7.97 N & 15.76 W OF TARGET CENTER SERVICE RIG, BOP DRILL 77 SEC, FT ANN & HCR VALVE
	0:00 - 15:30	15.50	DRLPRO	02	D	P		DRLG F/ 6366' TO 6688', 322' @ 40.25' PH WOB / 20-22- RPM 50, MM 156 SPM 230, 558 GPM, 5" LINNERS TRQ ON/OFF =9-7 K PSI ON/OFF 2900-2500, DIFF 250-500 PU/SO/RT = 180-160-170 SLIDE = 58' IN 2.58 HRS = 22.5' PH ROT = 264' IN 5.5 HRS = 48' PH MW 10, VIS 34, NO LOSS NO FLARE, VENTING BUSTER 11.76 N & 14.59 W OF TARGET CENTER

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS				Spud Conductor: 4/23/2011				Spud Date: 4/30/2011				
Project: UTAH-UINTAH				Site: NBU 921-35P PAD				Rig Name No: PIONEER 54/54, CAPSTAR 310/310				
Event: DRILLING				Start Date: 4/13/2011				End Date: 7/24/2011				
Active Datum: RKB @5,117.00usft (above Mean Sea Level)				UVI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0								
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)				Operation	
6/28/2011	0:00 - 15:30	15.50	DRLPRO	02	D	P		DRLG F/ 6688 TO 7340', 652' @ 42.1' PH WOB / 20-22- RPM 50, MM 156 SPM 230, 558 GPM, 5" LINNERS TRQ ON/OFF = 8-7 K PSI ON/OFF 3300-3600, DIFF 250-500 PU/SO/RT = 175-150-160 SLIDE = 0 ROT = 100% MW 10, VIS 34, NO LOSS NO FLARE, OFF BUSTER 10.38N & 14.87 W OF TARGET CENTER CHANGE SWAB #2 PUMP				
	15:30 - 16:00	0.50	DRLPRO	08	B	Z		DRLG F/ 7340' TO 7416', 76' @ 50.6' PH MW 10.1, VIS 38, NO LOSS SERVICE RIG				
	16:00 - 17:30	1.50	DRLPRO	02	D	P		DRLG F/ 7416' TO 7675', 259' @ 43.2' PH WOB / 20-22- RPM 50, MM 156 SPM 230, 558 GPM, 5" LINNERS TRQ ON/OFF = 8-7 K PSI ON/OFF 3300-3600, DIFF 250-500 PU/SO/RT = 185-135-160 SLIDE = 0 ROT = 100% MW 10, VIS 34, NO LOSS NO FLARE, OFF BUSTER				
	17:30 - 18:00	0.50	DRLPRO	07	A	P		8.06 N & 4.65 W OF TARGET CENTER DRLG F/ 7675' TO 8354', 679' @ 38.8' PH WOB / 22-24- RPM 50-60, MM 150 SPM 220, 532 GPM, 5" LINNERS TRQ ON/OFF = 9-8 K PSI ON/OFF 3300-3600, DIFF 250-350 PU/SO/RT = 195-165-175 SLIDE = 110' IN 3.5 HRS = 31.4' PH ROT = 569' IN 14 HRS = 40.5' PH MW 11.2, VIS 40, LCM 8-10%				
	18:00 - 0:00	6.00	DRLPRO	02	D	P		300 BBLS LOSS TO FORMATION, SEEPPING 10' FLARE, ON BUSTER 15.03 N & .90 W OF TARGET CENTER SERVICE RIG				
6/29/2011	0:00 - 17:30	17.50	DRLPRO	02	D	P		DRLG F/ 8354' TO 8400', 46' @ 15.3' PH WOB / 23-25- RPM 50-60, MM 150 SPM 220, 532 GPM, 5" LINNERS TRQ ON/OFF = 9-8 K PSI ON/OFF 3300-3600, DIFF 250-350 PU/SO/RT = 195-165-175 SLIDE = ROT = 100% MW 11.2, VIS 40, LCM 8-10%				
	17:30 - 18:00	0.50	DRLPRO	07	A	P		300 BBLS LOSS TO FORMATION, SEEPPING 5' CONN FLARE, OFF BUSTER CIRC & COND HOLE, MIX PILL				
	18:00 - 21:00	3.00	DRLPRO	02	D	P		PUMP PILL & POOH W/ BIT #1 TFNB, BACK REAM TIGHT HOLE 90' @ 4700' CHANGE OUT BIT & MM & SCRIBE, TIH BHA & D/P TO 4850'				
6/30/2011	21:00 - 22:00	1.00	DRLPRO	05	C	P						
	22:00 - 0:00	2.00	DRLPRO	06	A	P						
	0:00 - 3:00	3.00	DRLPRO	06	A	P						
	3:00 - 5:30	2.50	DRLPRO	06	A	P						

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011				Spud Date: 4/30/2011					
Project: UTAH-UINTAH			Site: NBU 921-35P PAD				Rig Name No: PIONEER 54/54, CAPSTAR 310/310					
Event: DRILLING			Start Date: 4/13/2011			End Date: 7/24/2011						
Active Datum: RKB @5,117.00usft (above Mean Sea Level)				UWI: SE/SE/0/9/S/21/E/35/D/0/26/PM/S/778/E/0/547/0/0								
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation				
7/1/2011	5:30 - 7:00	1.50	DRLPRO	03	A	X		WASH & REAM F/ 4850 TO 5300' TIGHT HOLE				
	7:00 - 9:30	2.50	DRLPRO	06	A	P		TIH, WASH TIGHT SPOT @ 6650' TIH, PRECAUTIONAY WASH & REAM 90' TO BOTTOM W/ 10' FILL, 10-15' TRIP GAS FLARE, ON BUSTER, LOST 100 BBLS ON TRIP				
	9:30 - 11:00	1.50	DRLPRO	02	D	P		DRLG F/ 8400' TO 8435', 35' @ 23.3' PH WOB / 20-22- RPM 50-60, MM 150 SPM 220, 532 GPM, 5" LINNERS TRQ ON/OFF = 7-6 K PSI OFF/ON 3300-, DIFF 50 PU/SO/RT = 195-165-175 SLIDE = ROT = 100% MW 11.7, VIS 40, LCM 10% 5' CONN FLARE, OFF BUSTER				
	11:00 - 16:30	5.50	DRLPRO	22	L	Z		TROUBLE SHOOT MOTOR/BIT BALLING, COULD NOT GET ANY DIFF PSI, DRILLED TO 8479, DIFF PSI & P/R COME & GO, MADE 44'				
	16:30 - 0:00	7.50	DRLPRO	06	G	X		POOH W/ BIT & MM #2, BIT 1-1, MM FAILURE, P/U BIT #3 & MM, TIH, NO PROBLUMS FINISH TIH, NO PROBLUMS, 5' FILL, 5' FLARE ON BOTTOMS UP				
	0:00 - 1:30	1.50	DRLPRO	06	G	X		DRLG F/ 8479 TO 9037', 558' @ 37.2' PH WOB / 18-20, RPM 50-60, MM 150 SPM 220, 532 GPM, 5" LINNERS TRQ ON/OFF = 8-7 K PSI ON/OFF 3300-3000, DIFF 200-350 PU/SO/RT = 210-165-180 SLIDE = ROT = 100% MW 11.9, VIS 40, LCM 15% 5' CONN FLARE, OFF BUSTER				
	1:30 - 16:30	15.00	DRLPRO	02	D	P		LOST 100 BBLS @ 8750' SERVICE RIG				
	16:30 - 17:00	0.50	DRLPRO	07	A	P		DRLG F/ 9037' TO 9210', 173' @ 24.7' PH WOB / 22-24, RPM 50-60, MM 150 SPM 210, 509 GPM, 5" LINNERS TRQ ON/OFF = 9-8 K PSI ON/OFF 3300-3000, DIFF 200-350 PU/SO/RT = 220-150-175 SLIDE = ROT = 100%				
	17:00 - 0:00	7.00	DRLPRO	02	D	P		MW 12.0, VIS 40, LCM 15% 5' CONN FLARE, OFF BUSTER				
	0:00 - 15:30	15.50	DRLPRO	02	D	P		DRLG F/ 9210' TO 9555', 345' @ 22.2' PH WOB / 22-24, RPM 50-60, MM 150 SPM 210, 509 GPM, 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF 3500-3200, DIFF 200-350 PU/SO/RT = 220-150-175 SLIDE = ROT = 100%				
7/2/2011	15:30 - 16:00	0.50	DRLPRO	07	A	P		MW 12.5, VIS 40, LCM 15% 5' CONN FLARE, OFF BUSTER				
								SERVICE RIG				

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS	Spud Conductor: 4/23/2011				Spud Date: 4/30/2011			
Project: UTAH-UINTAH	Site: NBU 921-35P PAD				Rig Name No: PIONEER 54/54, CAPSTAR 310/310			
Event: DRILLING	Start Date: 4/13/2011				End Date: 7/24/2011			
Active Datum: RKB @5,117.00usft (above Mean Sea Level)	UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 0:00	8.00	DRLPRO	06	A	P		PUMP PILL TFNB, CHANGE OUT BIT & MM, TIH NO PROBLUMS
7/3/2011	0:00 - 3:00	3.00	DRLPRO	02	D	P		DRLG F/ 9555' TO 9656', 101' @ 33.6' PH WOB / 22-24, RPM 50-60, MM 150 SPM 210, 509 GPM, 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF 3500-3200, DIFF 200-350 PU/SO/RT = 220-150-175 SLIDE = ROT = 100% MW 12.7, VIS 47, LCM 15%
	3:00 - 3:30	0.50	DRLPRO	08	B	X		5' CONN FLARE, OFF BUSTER
	3:30 - 7:30	4.00	DRLPRO	02	D	P		LOST PSI, CHANGE SEATS & VALVES #1 PUMP DRLG F/ 9656' TO 9713', 57' @ 14.25' PH WOB / 22-24, RPM 50-60, MM 150 SPM 210, 509 GPM, 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF 3500-3200, DIFF 200-350 PU/SO/RT = 220-150-175 SLIDE = ROT = 100% MW 12.7, VIS 47, LCM 15%
	7:30 - 8:30	1.00	DRLPRO	05	C	P		5' CONN FLARE, OFF BUSTER 3.5 N & 13.27 E OF TARGET CENTER
	8:30 - 13:30	5.00	DRLPRO	06	A	P		CIRC & COND HOLE F/ TRIP, MIX & PUMP PILL
	13:30 - 14:30	1.00	DRLPRO	09	A	P		TFNB & MM, CHANGE OUT BIT & MM, TIH TO SHOE
	14:30 - 17:30	3.00	DRLPRO	06	A	P		SLIP & CUT 100' DRLG LINE
	17:30 - 0:00	6.50	DRLPRO	02	D	P		TIH, WASH & REAM 100' TO BOTTOM, 5' FILL, NO PROBLUMS ON TRIP, LOST 50 BBLS TO FORMATION
7/4/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRLG F/ 9713' TO 9880', 167' @ 25.7' PH WOB / 20-22, RPM 50-60, MM 150 SPM 210, 509 GPM, 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF 3500-3200, DIFF 200-350 PU/SO/RT = 220-150-175 SLIDE = ROT = 100% MW 12.7, VIS 47, LCM 15%
								0 CONN FLARE, OFF BUSTER
								.6 N & 18 E OF TARGET CENTER
								DRLG F/ 9880' TO 10,080', 200' @ 18.2' PH
								WOB / 22-24, RPM 50-60, MM 150
								SPM 210, 509 GPM, 5" LINNERS
								TRQ ON/OFF = 10-9 K
	11:00 - 12:30	1.50	DRLPRO	05	C	P		PSI ON/OFF 3700-3400, DIFF 200-350 PU/SO/RT = 235-165-185 ROT = 100% MW 12.7, VIS 47, LCM 15%
	12:30 - 13:30	1.00	DRLPRO	06	E	P		0 CONN FLARE, OFF BUSTER
	13:30 - 14:00	0.50	DRLPRO	07	A	P		PUMP HIGH VIS SWEEP, CIRC & COND HOLE F/ SHORT TRIP
								SHORT TRIP 10 STDS
								SERVICE RIG

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011			Spud Date: 4/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35P PAD			Rig Name No: PIONEER 54/54, CAPSTAR 310/310		
Event: DRILLING			Start Date: 4/13/2011			End Date: 7/24/2011		
Active Datum: RKB @5,117.00usft (above Mean Sea Level)				UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/5/2011	14:00 - 15:00	1.00	DRLPRO	05	C	P		PUMP HIGH VIS SWEEP, CIRC & COND HOLE F/ POOH TO RUN OPEN HOLE, TRIPLE-COMBO LOGS POOH, L/D HWDP, DIR TOOLS, P/U 30 JTS 4" HWDP, (WAITING ON LOGGERS) HPJSM W RIG & LOGGERS, R/U (2 HRS TO R/U) OPEN HOLE LOGS TO 8500', CABLE CAME OFF SHEEVE, THEY THOUGHT THEY WERE STUCK. THE DRILLER STOPPED THE OPERATION & SHOW THEM WHERE THERE CABLE WAS FRAIED & OFF THE BOTTOM SHEEVE, INSTALLED T-BARR ON CABLE, LOWERED BLOCKS, BACKED UP TRUCK & WAS ABLE TO SPOOL BAD CABLE BACK ON TRUCK, POOH W/ LOGGING TOOL, R/D PULL WEAR BUSHING
	15:00 - 20:30	5.50	DRLPRO	06	B	P		HPJSM W RIG & CASING CREWS, R/U & RUN TO SHOE
	20:30 - 22:30	2.00	DRLPRO	06	A	P		CHANGE OUT TO 250 TON EQUIPMENT, INSTALL DIVING BOARD, REMOVE KELLY HOSE, REPLACE BELLS
	22:30 - 0:00	1.50	DRLPRO	11	C	P		HPJSM & RUN CASING, 221 JTS P-110 #26 7" INTERMEDIATE CASING, WASACTH MARKER @ 4706', MASA MARKER @ 7368, SHOE @ 10,068', FLOAT @ 10,019,
	0:00 - 7:00	7.00	DRLPRO	11	C	P		HPJSM & RUN CASING, 221 JTS P-110 #26 7" INTERMEDIATE CASING, WASACTH MARKER @ 4706', MASA MARKER @ 7368, SHOE @ 10,068', FLOAT @ 10,019,
	7:00 - 9:00	2.00	DRLPRO	14	B	P		FISH BROKEN BOLT FROM SLIPS OUT OF WELLHEAD
	9:00 - 15:00	6.00	DRLPRO	12	C	P		CIRC PRIOR TO CEMENT JOB
	15:00 - 17:00	2.00	DRLPRO	12	A	P		RIG DOWN CASERS
7/6/2011	17:00 - 0:00	7.00	DRLPRO	12	C	P		LEAD 12.7 368 SKS
	0:00 - 2:00	2.00	DRLPRO	12	C	P		TAIL 14.3 800 SKS PLUG DOWN 10:15 HELD OK
	2:00 - 6:00	4.00	DRLPRO	19	A	S		SET SLIPS 100K CUT CSG SET PACKOFF
	6:00 - 7:00	1.00	DRLPRO	05	D	P		NIPPLE UP AND TEST B SECTION
	7:00 - 8:00	1.00	DRLPRO	12	A	P		TEST PACK OFF 1500 PSI
	8:00 - 12:00	4.00	DRLPRO	12	E	P		TEST BOPE 10,000 PSI
	12:00 - 16:00	4.00	DRLPRO	14	A	P		PICK UP MWD TOOLS-TIH
	16:00 - 18:00	2.00	DRLPRO	14	A	P		RIH TO 9970'
	18:00 - 20:30	2.50	DRLPRO	15	A	P		TEST CSG TO 7000 PSI
	20:30 - 22:30	2.00	DRLPRO	15	A	P		DRLG CMT F/10,039'-FC @ 10,019'
7/7/2011	22:30 - 0:00	1.50	DRLPRO	06	A	P		SHOE @ 10,068'
	0:00 - 5:30	5.50	DRLPRO	06	A	P		DRLG F/ 10,080' TO 10,182'-102' @ 20.4' PH
	5:30 - 6:30	1.00	DRLPRO	15	A	P		WOB / 22-24, RPM-60, MM 138
	6:30 - 7:30	1.00	DRLPRO	02	F	P		SPM 120-291 GPM-5" LINNERS
	7:30 - 12:30	5.00	DRLPRO	02	D	P		TRQ ON/OFF = 10-9 K
	12:30 - 13:00	0.50	DRLPRO	07	A	P		PSI ON/OFF 3200-2800-DIFF 200-350
								PU/SO/RT = 195-155-174
								ROT = 100%
								MW 12.7-VIS-38-LCM 0%
								10'-CONN GAS FLARE
								RIG SERVICE

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011			Spud Date: 4/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35P PAD			Rig Name No: PIONEER 54/54, CAPSTAR 310/310		
Event: DRILLING			Start Date: 4/13/2011			End Date: 7/24/2011		
Active Datum: RKB @5,117.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 0:00	11.00	DRLPRO	02	D	P		DRLG F/ 10,182' TO 10,630'-448' @ 40.72' PH WOB / 22-24- RPM-60- MM 138 SPM 120-291 GPM- 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF 3200-2800-DIFF 200-350 PU/SO/RT = 200-170-180 ROT = 100% MW 12.8-VIS-38-LCM 0% 50'-CONN GAS FLARE RAISE MW TO 13.1
7/8/2011	0:00 - 5:30	5.50	DRLPRO	02	D	P		DRLG F/ 10,630' TO 10,860'-230' @ 41.81' PH WOB / 22-24- RPM-60- MM 138 SPM 120-291 GPM- 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF 3200-2800-DIFF 200-350 PU/SO/RT = 205-155-174 ROT = 100% MW 13.4-VIS-41-LCM 0% 10'-CONN GAS FLARE CIRC HOLE CLEAN- GAS DOWN POOH-BRK BIT-L/D MOTOR PICK CORING TOOLS RIH TO 10,000' SLIP AND CUT 100' DRLG LINE RIH TO 10,640' REAM F/10,640' TO 10,860' CIRC BTMS UP BEFORE START CORING
	5:30 - 7:00	1.50	DRLPRO	05	C	P		CORE F/ 10,860' TO 10,950'-90' @ 18' PH WOB / 8- RPM-60 SPM 90-218 GPM- 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF-2750-2550-DIFF 200 PU/SO/RT = 200-150-175 ROT = 100% MW 13.4-VIS-41-LCM 0% 30'-BTMS UP FLARE CIRC BTMS PRIOR TO TRIP OUT WITH CORE POOH W/ CORE # 1 L/D CORE RECOVERED 100% OF 90' CUT RIG SERVICE
	6:30 - 17:30	11.00	DRLPRO	06	B	P		M/U CORE BBL RIH W/SAME TO 10,860' FILL PIPE EVERY 10 STANDS REAM F/10,860'-10,950'
	17:30 - 18:00	0.50	DRLPRO	07	A	P		CIRC BTMS UP PRIOR TO CORE 15'-BTMS UP FLARE CORE F/ 10,950' TO 10,984'-34' @ 6.1' PH WOB / 8- RPM-60 SPM 90-218 GPM- 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF-2350-2100-DIFF 200 PU/SO/RT = 205-155-180 ROT = 100% MW 13.4-VIS-41-LCM 0%
7/9/2011	0:00 - 5:00	5.00	DRLPRO	04	A	P		LOST 600 PSI PUMP PRESSURE CIRC BTMS PRIOR TO POOH W/CORE
	7:00 - 9:00	2.00	DRLPRO	05	C	Z		

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011			Spud Date: 4/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35P PAD			Rig Name No: PIONEER 54/54, CAPSTAR 310/310		
Event: DRILLING			Start Date: 4/13/2011			End Date: 7/24/2011		
Active Datum: RKB @5,117.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/11/2011	9:00 - 9:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	9:30 - 19:00	9.50	DRLPRO	06	B	Z		POOH W/CORE # 2 TOP CORE BBL WASHED OUT BOX END L/D RECOVERED 100% OF THE 34' CUT
	19:00 - 0:00	5.00	DRLPRO	06	B	P		M/U BHA-RIH CORE # 3
	0:00 - 0:30	0.50	DRLPRO	06	B	P		RIH W/CORE # 3 TO 10,984'
	0:30 - 1:30	1.00	DRLPRO	03	D	P		REAM F/10,864'-10,984'
	1:30 - 2:30	1.00	DRLPRO	05	A	P		CIRC BTMS UP PRIOR TO CORE 20' BTMS UP FLAIR
	2:30 - 15:00	12.50	DRLPRO	04	A	P		CORE F/ 10,984' TO 11,046'-62' @ 6.1' PH WOB / 8- RPM-60 SPM 70-170 GPM- 5" LINNERS TRQ ON/OFF = 10-9 K PSI ON/OFF-1100-1000-DIFF 100 PU/SO/RT = 205-155-180 ROT = 100%
	15:00 - 16:30	1.50	DRLPRO	05	C	P		MW 13.6-VIS-44-LCM 0%
	16:30 - 0:00	7.50	DRLPRO	06	B	P		CIRC BTMS UP PRIOR TO POOH WITH CORE# 3
7/12/2011	0:00 - 1:00	1.00	DRLPRO	06	B	P		POOH W/ CORE # 3
	1:00 - 3:30	2.50	DRLPRO	06	B	P		L/D CORE RECOVERED 100% OF 62' CUT
	3:30 - 10:00	6.50	DRLPRO	06	A	P		POOH CORE 3
	10:00 - 12:00	2.00	DRLPRO	03	D	P		RECOVERED 100% OF 62' CUT CORE 3
7/13/2011	12:00 - 18:00	6.00	DRLPRO	02	D	P		PICK UP MOTOR-M/U BIT-SCRIBE MWD RIH-10,746'-FILL PIPE EVERY 20 STANDS REAM F/10,746'-11046'-20' BTMS UP FLAIR LOST PARTIAL RETURNS (100-BBL) PUMP LCM SWEEP
	18:00 - 18:30	0.50	DRLPRO	07	A	P		DRLG- F-11,046' TO 11,167'-121' @ 20.16' PH WOB-20-RPM-60
	18:30 - 0:00	5.50	DRLPRO	02	D	P		SPM 115-279 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-3100-2900-DIFF-200 PU/SO/RT = 220-145-179 ROT = 100%

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011				Spud Date: 4/30/2011					
Project: UTAH-UINTAH			Site: NBU 921-35P PAD				Rig Name No: PIONEER 54/54, CAPSTAR 310/310					
Event: DRILLING			Start Date: 4/13/2011			End Date: 7/24/2011						
Active Datum: RKB @5,117.00usft (above Mean Sea Level)				UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0								
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation				
7/13/2011	0:00 - 14:00	14.00	DRLPRO	02	D	P		DRLG- F-11,240' TO 11,517'-277' @ 19.78' PH WOB-20-RPM-60 SPM 115-279 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-3200-2800-DIFF-400 PU/SO/RT = 227-155-181 ROT = 14 HRS 277'-19.78' PH SLIDE = 0 HRS MW 13.7-VIS-44-LCM 0% 15' CONN GAS FLAIR RIG SERVICE				
	14:00 - 14:30	0.50	DRLPRO	07	A	P		DRLG- F-11,517' TO 11,730'-490' @ 20.9' PH WOB-20-RPM-60 SPM 115-279 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-3200-2800-DIFF-400 PU/SO/RT = 225-150-180 ROT = 6.66 HRS 446'-66.96' PH SLIDE = 2.84 HRS 49'-17.25' PH MW 13.7-VIS-44-LCM 0% 15' CONN GAS FLAIR				
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRLG- F-11,730' TO 11,995'-265' @ 19.62' PH WOB-20-RPM-60 SPM 115-279 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-3200-2800-DIFF-400 PU/SO/RT = 225-150-180 ROT = 100% SLIDE = 0 MW 13.6-VIS-44-LCM 0% 15' CONN GAS FLAIR RIG SERVICE				
7/14/2011	0:00 - 13:30	13.50	DRLPRO	02	D	P		DRLG- F-11,995' TO 12,300'-305' @ 30.5' PH WOB-20-RPM-60 SPM 115-279 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-3300-2900-DIFF-400 PU/SO/RT = 240-155-185 ROT = 100% SLIDE = 0 MW 13.7-VIS-44-LCM 10% 15' CONN GAS FLAIR LOST 100 BBL MUD ADD 10 % LCM				
	13:30 - 14:00	0.50	DRLPRO	07	A	P		DRLG- F-11,995' TO 12,390'-90' @ 18' PH WOB-20-RPM-60 SPM 115-279 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-3300-2900-DIFF-400 PU/SO/RT = 240-155-192 ROT = 100% SLIDE = 0 MW 14.1-VIS-46-LCM 10% 15' CONN GAS FLAIR				
	14:00 - 0:00	10.00	DRLPRO	02	D	P		CIRC BTMS UP FOR CORE POOH FOR CORE # 4 BRK BIT-L/D-MOTOR				
7/15/2011	0:00 - 5:00	5.00	DRLPRO	02	D	P						
	5:00 - 6:00	1.00	DRLPRO	05	C	P						
	6:00 - 12:00	6.00	DRLPRO	06	B	P						

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS	Spud Conductor: 4/23/2011			Spud Date: 4/30/2011				
Project: UTAH-UINTAH	Site: NBU 921-35P PAD				Rig Name No: PIONEER 54/54, CAPSTAR 310/310			
Event: DRILLING	Start Date: 4/13/2011			End Date: 7/24/2011				
Active Datum: RKB @5,117.00usft (above Mean Sea Level)			UVI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/16/2011	12:00 - 19:30	7.50	DRLPRO	06	B	P		M/U-60'-CORE-BBL-RIH-10,000'
	19:30 - 22:00	2.50	DRLPRO	09	A	P		SLIP- CUT- DRLG LINE-REPLACE BRK BANDS
	22:00 - 22:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	22:30 - 0:00	1.50	DRLPRO	06	B	P		RIH-TO-12,363'
	0:00 - 2:00	2.00	DRLPRO	05	A	P		CIRC BTMS UP PRIOR TO CORE 35' FLAIR
	2:00 - 8:00	6.00	DRLPRO	04	A	P		DRLG- F-12,390' TO 12,450'-60' @ 10' PH WOB-10-RPM-70 SPM 70-179 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-2400-2400-DIFF-0 PU/SO/RT = 240-155-192 ROT = 100% SLIDE = 0 MW 14.0-VIS-46-LCM 10%
7/17/2011	8:00 - 10:00	2.00	DRLPRO	05	C	P		35' BTMS UP GAS FLAIR
	10:00 - 0:00	14.00	DRLPRO	06	B	P		CIRC PRIOR TO POOH W/CORE # 4
	0:00 - 2:30	2.50	DRLPRO	06	B	P		POOH W/CORE # 4
	2:30 - 9:30	7.00	DRLPRO	06	B	P		L/D-CORE 4 RECOVERED 100% OF 60' CUT
	9:30 - 12:00	2.50	DRLPRO	05	A	P		M/U -CORE-5-RIH-12,430'
	12:00 - 21:30	9.50	DRLPRO	04	A	P		CIRC BTMS PRIOR TO CORE 35' GAS FLAIR DRLG- F-12,450' TO 12,510'-60' @ 6.3' PH WOB-10-RPM-70 SPM 70-179 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-2400-2400-DIFF-0 PU/SO/RT = 240-160-190 ROT = 100% SLIDE = 0 MW 14.0-VIS-46-LCM 10%
7/18/2011	21:30 - 23:30	2.00	DRLPRO	05	C	P		CIRC-HOLE CLEAN-GAS DOWN
	23:30 - 0:00	0.50	DRLPRO	06	B	P		25' DRILLING FLAIR @ 12,505' MW 14.0
	0:00 - 12:30	12.50	DRLPRO	06	B	P		POOH-W-CORE # 5
	12:30 - 18:00	5.50	DRLPRO	06	A	P		POOH-CORE 5-RECOVERED 100% OF 60' CUT
	18:00 - 19:30	1.50	DRLPRO	03	D	P		M/U-BHA-SCRIBE-MWD-RIH TO 12,390'
	19:30 - 0:00	4.50	DRLPRO	02	D	P		REAM F/12,390 TO 12,510' 25' BTMS UP FLAIR DRLG- F-12,510' TO 12,664'-154' @ 34.22' PH WOB-20-RPM-60 SPM 115-279 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-3300-2800-DIFF-500 PU/SO/RT = 240-170-192 ROT = 100% SLIDE = 0 MW 14.0-VIS-46-LCM 10%

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS		Spud Conductor: 4/23/2011				Spud Date: 4/30/2011				
Project: UTAH-UINTAH			Site: NBU 921-35P PAD				Rig Name No: PIONEER 54/54, CAPSTAR 310/310			
Event: DRILLING			Start Date: 4/13/2011			End Date: 7/24/2011				
Active Datum: RKB @5,117.00usft (above Mean Sea Level)				UW: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
7/19/2011	0:00 - 1:00	1.00	DRLPRO	02	D	P		DRLG- F-12,664' TO 12,721'-57' @ 57' PH WOB-20-RPM-60 SPM 115-279 GPM- 5" LINNERS TRQ ON/OFF = 9-7 K PSI ON/OFF-3300-2800-DIFF-500 PU/SO/RT = 240-170-192 ROT = 100% SLIDE = 0 MW 14.0-VIS-46-LCM 10% PUMP HIGH VISC CIRC HOLE CLEAN WIPER TRIP TO SHOE 30' BTMS UP FLAIR RAISE MW TO 14.4 DROP DP RABBIT POOH TO LOGG POOH FOR LOGGS-L/D-DIRECTIONAL TOOLS RIG UP SCHLM-#1- RUN-LOGGER TD=12,689'		
	1:00 - 3:30	2.50	DRLPRO	05	F	P				
	3:30 - 7:00	3.50	DRLPRO	06	E	P				
	7:00 - 9:30	2.50	DRLPRO	05	C	P				
	9:30 - 15:30	6.00	DRLPRO	06	B	P				
	15:30 - 0:00	8.50	DRLPRO	11	D	P				
7/20/2011	0:00 - 9:30	9.50	DRLPRO	11	D	P		LOGG RUN # 2 TD 12,721' RIG DOWN LOGGERS CUT 15 WRAPS		
	9:30 - 10:30	1.00	DRLPRO	09	C	P				
	10:30 - 16:00	5.50	DRLPRO	12	C	P		HPJSM W/ RIG,WEATHERFORD & CASING CREWS, R/U & RUN 65 JTS 4.5" P-110, SHOE @ 12718, FLOAT COLLAR 12670, LANDING COLLAR 12669, MARKERS @ 12,371 & 10,819', MAKE UP HANGER TIH W/ D/P WTH CASING & HANGER, WASH 30' TO BOTTOM		
	16:00 - 21:30	5.50	DRLPRO	12	C	P		R/U CEMENTING HEAD & CIRC OUT GAS, 10-15' FLARE ON BUSTER		
	21:30 - 23:30	2.00	DRLPRO	05	D	P		SET 4.5" TO 7" HANGER W/ 140 K		
	23:30 - 0:00	0.50	DRLPRO	06	D	P		HANG 4.5" LINER TO 7" CASING, 222' OVER LAP		
7/21/2011	0:00 - 0:30	0.50	DRLPRO	06	D	P		HPJSM W/ RIG & BJ, R/U & PSI TEST LINES TO 5000, PUMP 10 BBLS SPACER WATER, TAIL 265 SKS 14.3 PPG, 1.56 YLD, DROP PLUG & WIPER & DISPLACE W/ 51 BBLS WATER & 100 BBLS MUD, BUMP PLUG @ 4553 PSI - 1500 OVER FINAL LIFT OF 3215 PSI, PLUG BACK TO 12669, 5 BBLS BACK TO TRUCK, U TUBED ABOUT 10 BBLS UP D/P, CEMENT ON BACKSIDE, 222' OVER LAP		
	0:30 - 2:00	1.50	DRLPRO	12	E	P		L/D 1 JT & PULL 1 STD, HOOKUP SWEDGE TO REVERSE CIRC		
	2:00 - 2:30	0.50	DRLPRO	06	D	P		REVERSE CIRC TO CLEAN D/P & CEMENT, W/ BJ, 170 BBLS		
	2:30 - 4:00	1.50	DRLPRO	05	C	P		HPJSM W/ L/D & RIG CREWS - LDDS		
	4:00 - 10:30	6.50	DRLPRO	06	A	P		TIH 30 STDS OUT OF DERRICK		
	10:30 - 11:30	1.00	DRLPRO	06	A	P		LDDS + 30 HWDP & LINER HANGER & R/D L/D CREW		
	11:30 - 15:00	3.50	DRLPRO	06	A	P		N/D & REMOVE 10 K BOPE & CLEAN PITS, RELEASE		
	15:00 - 0:00	9.00	DRLPRO	14	A	P		RIG TO THE NBU 921-35J4BS @ 00:00 7/22/11		

Well Name:NBU 921-35P1CS
 WINS No: E3185
 API No: 4304751381
 State: UTAH
 County: UINTAH
 Field Name: GNB_NATURAL BUTTES
 Well Directions:

Location Description: SE SE 35 9S 21E 778' FSL 547' FEL
Working Interest: 100.00
Spud Date: 04/30/2011
Ground Elevation: 5098
KB Height: 5117
TD Date: 07/19/2011

TD: 12721
TVD: 12990
PBTD: 12673
PB TVD: 126656

HOLE SECTIONS						LOGGING DATA								
HOLE SECTIONS		Size	Top	Btm	TD Date	Date	Tool Description		MD Top	MD Base				
SURFACE		12.250	19	2590	05/01/2011									
INTERMEDIATE		8.500	2590	10040	07/06/2011									
PRODUCTION		6.125	10040	12721	07/22/2011									
CASING/TUBING/WELLBORE EQUIPMENT DATA														
TUBULARS	Tool Type	Joints	Size	Weight	Grade	Thread	Top D	Btm D	Burst	Collapse	Capacity	Length	ID	Drift ID
SURFACE CASING														
	Casing	61	9.625	40.00	J-55	LT&C	19	2506			2,487.46	8.835	0.000	
	Baffle	1	9.625	0.00		LT&C	2506	2507			0.50	0.000	0.000	
	Shoe Joint	1	9.625	40.00	J-55	LT&C	2507	2551			43.89	8.835	0.000	
	Casing Shoe	1	9.625	0.00		LT&C	2551	2552			1.50	0.000	0.000	
INTERMEDIATE CASING														
	Casing	103	7.000	26.00	P-110	BTC	19	4688			4,669.36	0.000	6.151	
	Pup Joint	1	7.000	26.00	P-110	BTC	4688	4700			11.58	0.000	6.151	
	Casing	59	7.000	26.00	P-110	BTC	4700	7350			2,650.23	0.000	6.151	
	Pup Joint	1	7.000	26.00	P-110	BTC	7350	7361			10.93	0.000	6.151	
	Casing	58	7.000	26.00	P-110	BTC	7361	10011			2,649.97	0.000	6.151	
	Float Collar	1	7.000	26.00	P-110	BTC	10011	10013			1.50	0.000	6.151	
	Casing	1	7.000	26.00	P-110	BTC	10013	10060			47.18	0.000	6.151	
	Casing Shoe	1	7.000	26.00	P-110	BTC	10060	10062			1.90	0.000	6.151	
PRODUCTION LINER														
	Tubing Joint(s)	93	4.000				19	9805			9,786.00			
	Pack Off Tubing Har	1	7.000	11.60	P-110	BT&C	9805	9831			0.02	26.09	4.000	
	Casing	22	4.500	11.60	P-110	BT&C	9831	10795	10,690.0	7,580.00	0.02	963.85	4.000	
	Pup Joint	1	4.500	11.60	P-110	BT&C	10795	10816	10,690.0	7,580.00	0.02	21.14	4.000	
	Casing	35	4.500	11.60	P-110	BT&C	10816	12347	10,690.0	7,580.00	0.02	1,530.86	4.000	
	Pup Joint	1	4.500	11.60	P-110	BT&C	12347	12368	10,690.0	7,580.00	0.02	21.12	4.000	
	Casing	7	4.500	11.60	P-110	BT&C	12368	12670	10,690.0	7,580.00	0.02	301.51	4.000	
	Landing Collar	1	4.500	11.60	P-110	BT&C	12670	12671			1.04	4.000		
	Float Collar	1	4.500	11.60	P-110	BT&C	12671	12672	10,690.0	7,580.00	0.02	1.35	4.000	
	Casing	1	4.500	11.60	P-110	BT&C	12672	12717	10,690.0	7,580.00	0.02	44.91	4.000	
	Casing Shoe	1	4.500	11.60	P-110	BT&C	12717	12719			1.64	4.000		

Well Name: NBU 921-35P1CS
 WINS No: E3185
 API No: 4304751381
 State: UTAH
 County: UINTAH
 Field Name: GNB_NATURAL BUTTES
 Well Directions:

Location Description: SE SE 35 9S 21E 778' FSL 547' FEL
 Working Interest: 100.00
 Spud Date: 04/30/2011
 Ground Elevation: 5098
 KB Height: 5117
 TD Date: 07/19/2011

TD: 12721
 TVD: 12990
 PBTD: 12673
 PB TVD: 126656

CEMENT INFORMATION													
CEMENT JOBS	Stage	Cement Jobs		Sacks	Returns	Displ. Fluid	Top D	Btm D	cbl				
INTERMEDIATE CASING	TOP OUT JOB	TOP OUT PREMIUM		200			145	386	No				
	PRIM CMT 1ST STAGE	LEAD PREMIUM LITE		280	1.00		386	1,800	No				
	PRIM CMT 1ST STAGE	LEAD PREMIUM LITE		368			19	4,055	No				
	PRIM CMT 1ST STAGE	DISPLACEMWATER					19	10,019	No				
	PRIM CMT 1ST STAGE	PRE FLUSHWATER					19	19	No				
	PRIM CMT 1ST STAGE	TAIL 50/50 POZ-MIX		800			4,055	10,068	No				
	PRIM LINER CEMENT	SPACER WATER		5.00			0	0	No				
	PRIM LINER CEMENT	DISPLACEMUD		5.00			0	9,835	No				
	PRIM LINER CEMENT	DISPLACEIWATER		5.00			0	9,845	No				
	PRIM LINER CEMENT	TAIL 50/50 POZ-MIX		265	5.00		9,845	12,717	No				
FORMATION TOPS					PUMP EQUIPMENT								
Strat Unit	Formation	MD Top	MD Base	Comments	Type	Description							
UINTA CASTLEGATE BIRD'S NEST SEGO MESA VERDE MAHOGANY GREEN RIVER MVL1 MN5 WASATCH SURFACE MVU2													
PERFORATIONS													
Date	Formation Zone	Top	Btm	SPF	No. Holes	Diameter	Phasing	Reason	Status	Comments			

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-35P1CS	Wellbore No.	OH
Well Name	NBU 921-35P1CS	Wellbore Name	NBU 921-35P1CS
Report No.	1	Report Date	8/11/2011
Project	UTAH-UINTAH	Site	NBU 921-35P PAD
Rig Name/No.	MILES 2/2	Event	COMPLETION
Start Date	8/11/2011	End Date	11/12/2011
Spud Date	4/30/2011	Active Datum	RKB @5,117.00usft (above Mean Sea Level)
UWI	SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly		Conveyed Method	WIRELINE		

1.4 Initial Conditions

1.5 Summary

Fluid Type		Fluid Density		Gross Interval	10,843.0 (usft)-12,473.0 (u	Start Date/Time	11/7/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	5	End Date/Time	11/7/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	0	Net Perforation Interval	23.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	0.00 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

2 Intervals

2.1 Perforated Interval

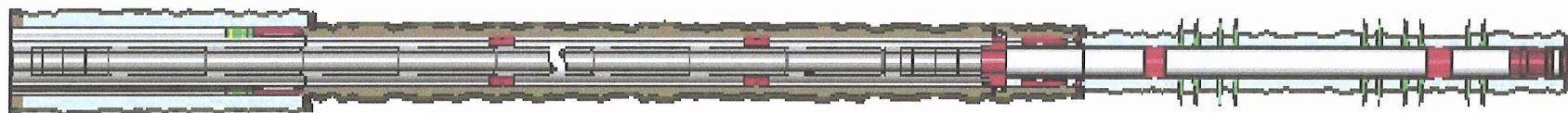
Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carb Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/7/2011 12:00AM	MANCOS/ 12:00AM	10,843.0	10,853.0			0.360 EXP/		3.375	120.00			23.00 PRODUCTIO		N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@(usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/7/2011	MANCOS/			10,944.0	10,948.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	
12:00AM														N	
11/7/2011	MANCOS/			12,254.0	12,257.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	
12:00AM														N	
11/7/2011	MANCOS/			12,349.0	12,352.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	
12:00AM														N	
11/7/2011	MANCOS/			12,470.0	12,473.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	
12:00AM														N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS				Spud Conductor: 4/23/2011				Spud Date: 4/30/2011							
Project: UTAH-UINTAH				Site: NBU 921-35P PAD				Rig Name No: MILES 2/2							
Event: COMPLETION				Start Date: 8/11/2011			End Date: 11/12/2011								
Active Datum: RKB @5,117.00usft (above Mean Sea Level)						UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0									
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation							
8/11/2011	7:00 - 7:15	0.25	COMP	48		P		HSM							
	7:15 - 17:00	9.75	COMP	44	A	P		MIRU, SPOT EQUIP, NDBOP, PSI TEST BOP TO 3000#, P/U TBG OFF TRLR & RIH W/ 6 1/8" BIT. TAG TOC @ 9764'. RU PWR SWVL & ESTB CIRC. D/O TO LINER TOP @ 9805', CIRC W/ 50 BBLS TMAC, POOH 7915'. SWIFN.							
8/12/2011	7:00 - 7:15	0.25	COMP	48		P		HSM							
	7:15 - 18:00	10.75	COMP	44	A	P		WHP 0 PSI, CONT TO POOH WITH TBG, CHANGE OUT 6 1/8" BIT FOR 3 7/8" DRAG BIT & RIH TO 7725', REV CIRC 230 BBLS DRLNG MUD OUT OF WELL, CONT TO RIH TO 9805' DIDN'T TAG ANY CEMENT GOING INTO 4 1/2" CASING, P/U TBG OFF TRLR & CONT RIH TO 12360', TAG FILL, EST CIRC, PLUG OFF FLOWBACK LINE W/ LCM. REPLACE PLUGGED LINE & CIRC CLN W/ 90 BBLS, POOH W/ 10 STANDS. SWFWE							
8/15/2011	7:00 - 17:00	10.00	COMP	30		P		7AM [DAY 3] JSA-- P/U TBG. PINCH PTS, SWVL, DRLG CMT & DRLG MUD.							
								WE-SITP=150#, WE-SICP=700#. EOT @ 11,700'. RIH TO 10,460 & CIRC DRLG MUD OUT EVERY 600'. TAG HARD CMT @ 12,360'. R/U SWVL & PUMP. DRILL & C/O 300' CMT TO 12,660'. LAST 30' DRILLED HARD-- GOT SMALL METAL SHAVINGS OF WIPER PLUG IN RETURNS. CIRCULATE WELL CLEAN. R/D SWVL. POOH LAYING DOWN TBG ON FLOAT. EOT @ 9830'.							
8/16/2011	7:00 - 15:00	8.00	COMP	30		P		5PM SWI-SDFN 7AM [DAY 4] JSA-- L/D TBG, NDBOP, NUWH, R/D RIG & R/U RIG.							
								SITP=0#, SICP=0#. EOT @ 9830'. CONTINUE POOH L/D TBG ON FLOAT. L/D BHA. TOTAL OF 396 JTS ON FLOAT. PARKED FLOAT IN FAR CORNER OF LOCATION FOR FUTURE USE. FILL CSG W/ TMAC. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. RDMO. ROAD RIG TO NBU 9221-25D1CS. SPOT RIG & EQUIPMENT. WAITING FOR BLUE STAKES, - TO PUT ANCHORS IN.							
10/4/2011	8:00 - 16:00	8.00	COMP	41	A	P		3PM SDFD HSM, P/U TOOLS, MIRU CASED HOLE SOLUTIONS, P/U RIH W/ LOGGING TOOL, RIH TO 12,640' LOG UP TO 8,500' PROBLEMS W/ TOOL HAD TO RELOG.							

US ROCKIES REGION

Operation Summary Report

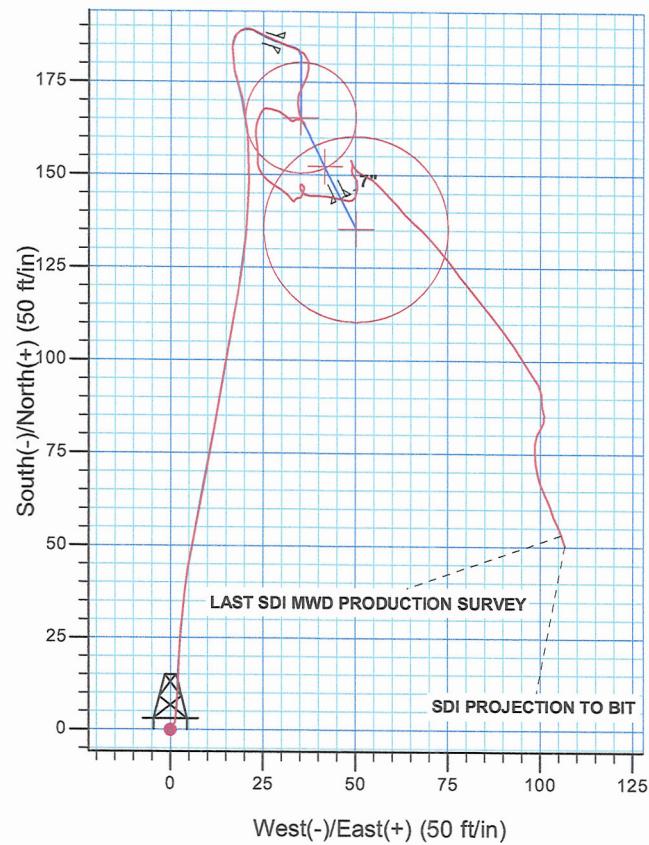
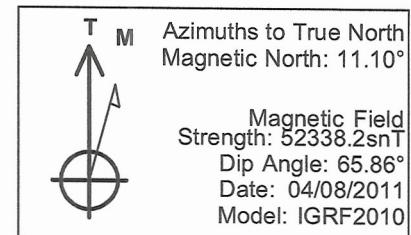
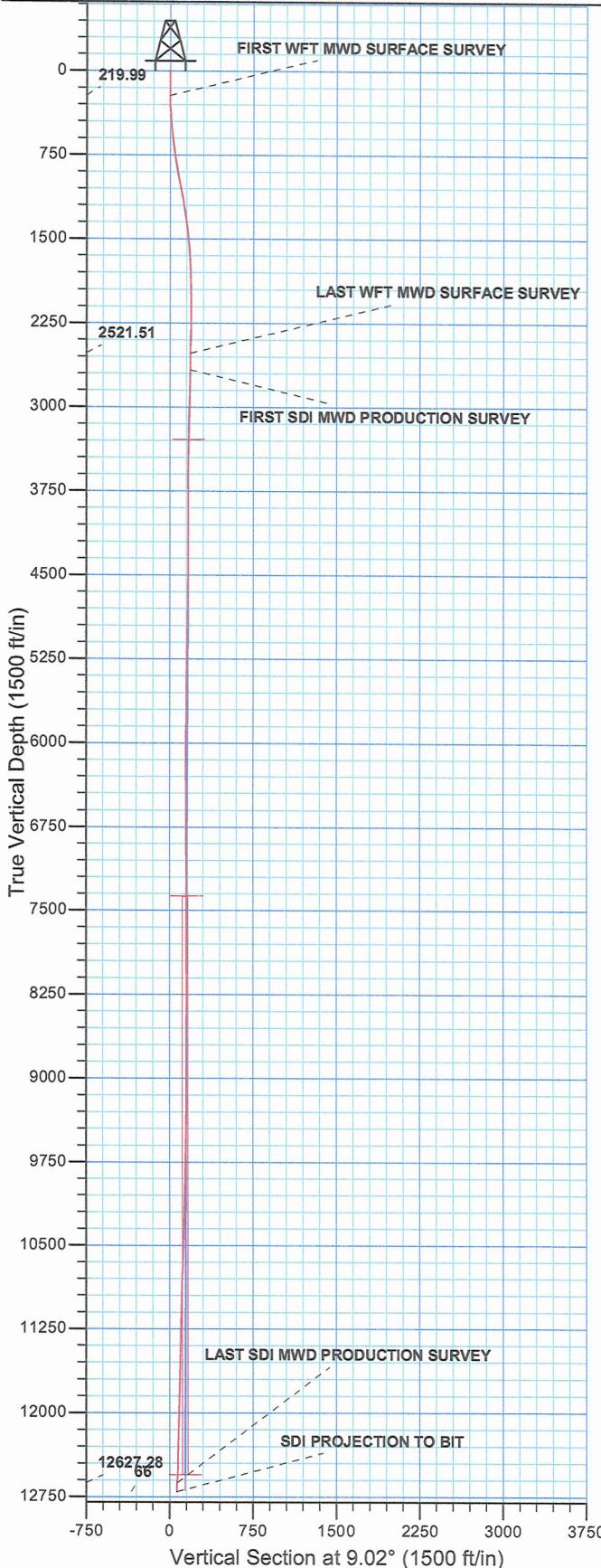
Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011			Spud Date: 4/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35P PAD			Rig Name No: MILES 2/2		
Event: COMPLETION			Start Date: 8/11/2011			End Date: 11/12/2011		
Active Datum: RKB @5,117.00usft (above Mean Sea Level)				UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/5/2011	7:00 - 11:00	4.00	COMP	37	B	P		HSM, REVIEW PROCEDURE ON BREAK DN, FILL CSG W/ 15 BBLs, P/U RIH W/ 3-1/8 EXPEND. 23 GRM, 0.36" HOLE, 4 SPF, 90° PH, PERF MANCOS AS OUTLINED IN PROCEDURE
11/9/2011	7:00 - 11:30	4.50	COMP	48		P		HOOK UP SUPERIOR PUMP TRUCK, BRK DOWN PERFS @ 1,500# [DID NOT SEE GOOD BRK] @=6.5 BPM, PUMP'D, PUMP'D 52 BBLs @ 1,570# @=6.5 BPM, ISIP=1,570#, SWI, WAIT FOR INFORMATION OFF HALIBURTON IFIT GAUGES.
	11:30 - 22:00	10.50	COMP	36	E	P		MIRU CASED HOLE SOLUTIONS & SUPERIOR FRAC EQUIP, HSM, REVIEW PRE FRAC DESIGN / POSSIBLE PRESSURES. PRESSURE TEST SURFACE LINES TO 10,000#
								'PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 40/70 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D
								PERF STG #1] P/U RIH W/ PERF GUN, PERF MANCOS USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW
								FRAC STG #1] WHP=1,890#, BRK DN PERFS=7,655#, @=6.4 BPM, INJ RT=50.1, INJ PSI=7,302#, INITIAL ISIP=6,220#, INITIAL FG=.94, FINAL ISIP=5,850#, FINAL FG=.91, AVERAGE RATE=48.5, AVERAGE PRESSURE=7,552#, MAX RATE=51.1, MAX PRESSURE=8,158#, NET PRESSURE INCREASE=-370#, 33/36 90% CALC PERFS OPEN. X OVER TO WIRE LINE
								PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=11,010', PERF MANCOS USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW
								FRAC STG #2] WHP=3,460#, BRK DN PERFS=4,404#, @=4.6 BPM, INJ RT=52.3, INJ PSI=5,070#, INITIAL ISIP=3,873#, INITIAL FG=.79, FINAL ISIP=4,260#, FINAL FG=.83, AVERAGE RATE=52.1, AVERAGE PRESSURE=4,984#, MAX RATE=52.5, MAX PRESSURE=5,906#, NET PRESSURE INCREASE=387#, 32/42 75% CALC PERFS OPEN. X OVER TO WIRE LINE
								P/U RIH W/ HALIBURTON 8K CBP, SET @=10,793'
								TOTAL FLUID PUMP'D=7,582 BBLs TOTAL SAND PUMP'D=242,389#
11/10/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, MOVING RIG & EQUIP.
	7:30 - 10:30	3.00	COMP	30	A	P		MIRU FROM FEDERAL 920-23P, SICP 2600 PSI, BLEAD OFF PSI.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011			Spud Date: 4/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35P PAD			Rig Name No: MILES 2/2		
Event: COMPLETION			Start Date: 8/11/2011			End Date: 11/12/2011		
Active Datum: RKB @5,117.00usft (above Mean Sea Level)				UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:30 - 17:00	6.50	COMP	46	E	P		ND FV, NU 7 1/16 5K BOPS, RU FLOOR, TALLY & PU 37/8 BIT, POBS, & 246 JTS 23/8 L-80 OFF FLOAT. EOT @ 7807' SWI SDFN.
11/11/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING WITH HIGH PRESSURE
	7:30 - 18:30	11.00	COMP	31	I	P		SICP 0, PU 68 JTS 23/8 TOTAL IN HOLE 314, ND 5K BOPS, LAND TBG, NU 7 1/16 10K BOPS & HYD, RU FLOOR, UNLAND TBG L/D HANGER. PU REM 26 JTS 23/8 340 TOTAL, TO 10,779' RU DRLG EQUIP, BROKE CIRC CONV, TEST BOPS TO 4,000# OK TEST HYD, NOT HOLDING WAIT BOP TECH, CHECK OUT PROBLEM. STILL COULDNT PILL TBG TROUGH BAG W/ PRESSURE, RD SWIVEL, L/D 1 JT TBG, LAND TBG, RD FLOOR, ND 10-K 71/16 HYD & SPOOL SWI SDFN.
11/12/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, NU HYDRILL & DRILL PLUGS W/ HYDRILL.
	7:30 - 17:00	9.50	COMP	44	C	P		UNLAND TBG, L/D 71/16 HANGER, STRIP ON 4 1/6 10K HYDRIL, RU SWIVEL, BROKE CIRC CONV, TEST HYD TO 3,000# OK, WORK TBG TROUGH BAG NOT WORKING, NU WASHINGTON HEAD. HOLD SAFETY MEETING W/ EVERY ONE ON LOCATION.
C/O 14' SAND TAG 1ST PLUG @ 10,793' DRL PLG IN 10 MIN, 1000# PSI INCREASE RIH								
C/O 60' SAND TAG 2ND PLUG @ 11,010' DRL PLG IN 12 MIN, 1000# PSI INCREASE RIH								
C/O TO 12,550', CIRC CLN, L/D 58 JTS. STRIP IN HANGER UNDER 41/16 HYDRIL, LAND TBG ON 337 JTS 23/8 L-80. ND BOPS & HYDRIL, NU WH, PUMP OFF BIT, TURN WELL OVER TO FB CREW.								
KB= 19' (SURFACE OPEN W/ POPOFF) HANGER = .83' PSI, FTP 100 PSI 337 JTS 23/8 L-80 = 10,678.53' POBS W/ 1.875 X/N = 2.20' EOT @ 10,700.56								
TWTR 7832 BBLS TWR 1700 BBLS TWLTR 6132 BBLS								
359 JTD HAULED OUT 337 LANDED 22 WENT TO SAMUELS YARD								

WELL DETAILS: NBU 921-35P1CS					
GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)					
+N/S 0.00	+E/W 0.00	Northing 14524968.42	Easting 2057581.88	Latitude 39° 59' 14.914 N	Longitude 109° 30' 38.650 W



PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 35 T9S R21E
System Datum: Mean Sea Level



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UNITAH_NBU 921-35P PAD

NBU 921-35P1CS

OH

Design: OH

Standard Survey Report

09 August, 2011

Anadarko
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING		Local Co-ordinate Reference:	Well NBU 921-35P1CS					
Project:	UTAH - UTM (feet), NAD27, Zone 12N		TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)					
Site:	UNITAH_NBU 921-35P PAD		MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)					
Well:	NBU 921-35P1CS		North Reference:	True					
Wellbore:	OH		Survey Calculation Method:	Minimum Curvature					
Design:	OH		Database:	EDM5000-RobertS-Local					
Project	UTAH - UTM (feet), NAD27, Zone 12N								
Map System:	Universal Transverse Mercator (US Survey Feet)		System Datum:	Mean Sea Level					
Geo Datum:	NAD 1927 (NADCON CONUS)								
Map Zone:	Zone 12N (114 W to 108 W)								
Site	UNITAH_NBU 921-35P PAD, SECTION 35 T9S R21E								
Site Position:	Northing:	14,524,968.43 usft	Latitude:	39° 59' 14.914 N					
From:	Lat/Long	Easting: 2,057,581.88 usft	Longitude:	109° 30' 38.650 W					
Position Uncertainty:	0.00 ft	Slot Radius: 13.200 in	Grid Convergence:	0.96 °					
Well	NBU 921-35P1CS, 778' FSL 547 FEL								
Well Position	+N-S 0.00 ft	Northing: 14,524,968.43 usft	Latitude:	39° 59' 14.914 N					
	+E-W 0.00 ft	Easting: 2,057,581.88 usft	Longitude:	109° 30' 38.650 W					
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level:	5,098.00 ft					
Wellbore	OH								
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)				
	IGRF2010	04/08/11	11.10	65.86	52,338				
Design	OH								
Audit Notes:									
Version:	1.0	Phase:	ACTUAL		Tie On Depth:				
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)					
	0.00	0.00	0.00	9.02					
Survey Program	Date 08/09/11								
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description					
220.00	2,535.00	Survey #1 WFT MWD SURFACE (OH)	MWD	MWD - Standard					
2,683.00	12,721.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1					
Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220.00	0.77	35.63	219.99	1.20	0.86	1.32	0.35	0.35	0.00
FIRST WFT MWD SURFACE SURVEY									
311.00	2.37	7.70	310.96	3.56	1.47	3.75	1.90	1.76	-30.69
404.00	3.74	2.57	403.82	8.50	1.86	8.69	1.50	1.47	-5.52
500.00	5.25	2.13	499.52	16.02	2.17	16.16	1.57	1.57	-0.46
595.00	6.56	4.26	594.02	25.77	2.73	25.88	1.40	1.38	2.24
688.00	7.69	6.63	686.30	37.25	3.84	37.39	1.26	1.22	2.55

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Well:	NBU 921-35P1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate ('/100ft)	Build Rate ('/100ft)	Turn Rate ('/100ft)
783.00	8.94	10.88	780.30	50.81	5.97	51.12	1.47	1.32	4.47
877.00	9.75	10.51	873.05	65.81	8.80	66.38	0.86	0.86	-0.39
972.00	10.56	10.38	966.56	82.28	11.84	83.12	0.85	0.85	-0.14
1,067.00	11.50	10.38	1,059.81	100.16	15.11	101.29	0.99	0.99	0.00
1,163.00	10.44	9.33	1,154.05	118.16	18.25	119.56	1.12	-1.10	-1.09
1,258.00	9.06	5.38	1,247.68	134.10	20.34	135.63	1.61	-1.45	-4.16
1,353.00	8.13	1.26	1,341.61	148.26	21.19	149.75	1.17	-0.98	-4.34
1,448.00	6.94	355.38	1,435.79	160.70	20.88	161.99	1.49	-1.25	-6.19
1,542.00	5.31	345.01	1,529.25	170.56	19.30	171.48	2.09	-1.73	-11.03
1,638.00	4.19	345.63	1,624.92	178.25	17.28	178.76	1.17	-1.17	0.65
1,734.00	3.19	6.63	1,720.73	184.30	16.71	184.64	1.73	-1.04	21.88
1,828.00	1.31	40.26	1,814.65	187.72	17.71	188.18	2.36	-2.00	35.78
1,923.00	0.88	59.51	1,909.64	188.92	19.04	189.57	0.59	-0.45	20.26
2,019.00	0.69	85.51	2,005.63	189.34	20.25	190.17	0.42	-0.20	27.08
2,113.00	0.50	95.88	2,099.62	189.34	21.23	190.33	0.23	-0.20	11.03
2,209.00	0.75	110.38	2,195.62	189.08	22.23	190.23	0.31	0.26	15.10
2,305.00	1.13	122.88	2,291.60	188.35	23.61	189.72	0.45	0.40	13.02
2,400.00	1.63	112.51	2,386.58	187.32	25.65	189.03	0.59	0.53	-10.92
2,495.00	1.81	113.13	2,481.53	186.21	28.28	188.35	0.19	0.19	0.65
2,535.00	1.96	107.65	2,521.51	185.76	29.51	188.09	0.59	0.38	-13.70
LAST WFT MWD SURFACE SURVEY									
2,683.00	1.58	115.75	2,669.44	184.11	33.76	187.12	0.31	-0.26	5.47
FIRST SDI MWD PRODUCTION SURVEY									
2,778.00	1.67	129.99	2,764.40	182.65	36.00	186.03	0.43	0.09	14.99
2,874.00	1.23	171.48	2,860.37	180.73	37.22	184.33	1.15	-0.46	43.22
2,969.00	1.32	187.38	2,955.35	178.64	37.24	182.26	0.38	0.09	16.74
3,064.00	1.67	197.67	3,050.32	176.23	36.67	179.80	0.46	0.37	10.83
3,159.00	1.58	209.00	3,145.28	173.77	35.62	177.20	0.35	-0.09	11.93
3,255.00	1.41	199.86	3,241.25	171.50	34.58	174.80	0.30	-0.18	-9.52
3,350.00	1.49	173.06	3,336.22	169.17	34.33	172.46	0.71	0.08	-28.21
3,446.00	1.67	170.42	3,432.18	166.55	34.71	169.94	0.20	0.19	-2.75
3,541.00	1.23	142.21	3,527.15	164.38	35.57	167.93	0.87	-0.46	-29.69
3,636.00	0.18	125.07	3,622.14	163.49	36.31	167.16	1.12	-1.11	-18.04
3,731.00	0.88	324.50	3,717.14	164.00	36.01	167.62	1.11	0.74	-169.02
3,827.00	0.70	292.24	3,813.13	164.82	35.04	168.28	0.49	-0.19	-33.60
3,923.00	0.62	255.76	3,909.13	164.92	34.00	168.21	0.44	-0.08	-38.00
4,018.00	0.62	227.99	4,004.12	164.45	33.12	167.60	0.31	0.00	-29.23
4,114.00	0.62	326.60	4,100.12	164.53	32.44	167.58	0.98	0.00	102.72
4,208.00	1.49	308.06	4,194.10	165.71	31.20	168.55	0.98	0.93	-19.72
4,304.00	1.41	298.30	4,290.07	167.04	29.18	169.55	0.27	-0.08	-10.17
4,399.00	1.14	276.77	4,385.05	167.71	27.21	169.90	0.57	-0.28	-22.66
4,495.00	0.71	271.54	4,481.03	167.83	25.67	169.78	0.46	-0.45	-5.45

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Well:	NBU 921-35P1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate ('/100ft)	Build Rate ('/100ft)	Turn Rate ('/100ft)
4,590.00	0.62	208.57	4,576.03	167.40	24.83	169.22	0.74	-0.09	-66.28
4,686.00	1.30	207.24	4,672.02	165.97	24.09	167.70	0.71	0.71	-1.39
4,781.00	1.14	192.22	4,766.99	164.09	23.39	165.73	0.37	-0.17	-15.81
4,877.00	0.79	189.41	4,862.98	162.51	23.08	164.12	0.37	-0.36	-2.93
4,971.00	1.23	174.11	4,956.97	160.86	23.08	162.49	0.55	0.47	-16.28
5,065.00	1.23	173.67	5,050.94	158.86	23.30	160.54	0.01	0.00	-0.47
5,160.00	1.32	170.95	5,145.92	156.76	23.58	158.52	0.11	0.09	-2.86
5,255.00	1.23	187.65	5,240.90	154.67	23.62	156.46	0.40	-0.09	17.58
5,351.00	0.88	176.49	5,336.88	152.91	23.52	154.71	0.42	-0.36	-11.63
5,446.00	0.79	155.39	5,431.87	151.59	23.84	153.45	0.34	-0.08	-22.21
5,542.00	0.95	144.85	5,527.86	150.34	24.58	152.33	0.24	0.17	-10.98
5,637.00	1.10	137.31	5,622.84	149.02	25.65	151.20	0.21	0.16	-7.94
5,733.00	1.65	125.52	5,718.82	147.54	27.40	150.01	0.64	0.57	-12.28
5,828.00	1.87	120.81	5,813.77	145.96	29.84	148.83	0.28	0.23	-4.96
5,924.00	1.23	139.22	5,909.74	144.37	31.86	147.58	0.84	-0.67	19.18
6,019.00	0.70	146.51	6,004.72	143.12	32.85	146.50	0.57	-0.56	7.67
6,115.00	0.26	54.32	6,100.72	142.75	33.35	146.22	0.79	-0.46	-96.03
6,210.00	0.53	26.10	6,195.72	143.28	33.72	146.79	0.34	0.28	-29.71
6,306.00	0.62	85.96	6,291.71	143.71	34.43	147.33	0.60	0.09	62.35
6,401.00	0.44	47.73	6,386.71	143.99	35.21	147.73	0.41	-0.19	-40.24
6,497.00	0.70	26.19	6,482.71	144.77	35.74	148.58	0.35	0.27	-22.44
6,592.00	0.63	12.93	6,577.70	145.80	36.12	149.65	0.18	-0.07	-13.96
6,688.00	0.62	337.59	6,673.69	146.79	36.04	150.62	0.40	-0.01	-36.81
6,783.00	0.29	276.81	6,768.69	147.29	35.60	151.05	0.57	-0.35	-63.98
6,879.00	0.05	17.80	6,864.69	147.36	35.37	151.09	0.32	-0.25	105.20
6,974.00	0.18	242.14	6,959.69	147.33	35.25	151.04	0.23	0.14	-142.80
7,070.00	0.35	216.30	7,055.69	147.03	34.95	150.69	0.21	0.18	-26.92
7,165.00	0.62	159.70	7,150.69	146.31	34.95	149.98	0.54	0.28	-59.58
7,261.00	0.70	148.27	7,246.68	145.32	35.44	149.08	0.16	0.08	-11.91
7,356.00	0.53	108.56	7,341.68	144.69	36.16	148.57	0.47	-0.18	-41.80
7,451.00	1.41	96.15	7,436.66	144.43	37.74	148.56	0.95	0.93	-13.06
7,547.00	1.41	86.92	7,532.63	144.36	40.10	148.86	0.24	0.00	-9.61
7,642.00	1.67	96.42	7,627.60	144.27	42.64	149.17	0.38	0.27	10.00
7,737.00	1.94	108.92	7,722.55	143.59	45.54	148.96	0.50	0.28	13.16
7,833.00	1.41	93.25	7,818.51	143.00	48.25	148.80	0.72	-0.55	-16.32
7,928.00	1.32	23.20	7,913.49	143.94	49.85	149.97	1.65	-0.09	-73.74
8,023.00	1.58	9.14	8,008.46	146.24	50.49	152.34	0.46	0.27	-14.80
8,119.00	1.32	338.47	8,104.43	148.57	50.29	154.62	0.84	-0.27	-31.95
8,214.00	0.53	313.42	8,199.42	149.89	49.57	155.81	0.92	-0.83	-26.37
8,310.00	0.27	332.53	8,295.41	150.40	49.15	156.24	0.30	-0.27	19.91
8,405.00	0.83	0.92	8,390.41	151.29	49.05	157.11	0.64	0.59	29.88
8,501.00	0.77	8.77	8,486.40	152.62	49.16	158.44	0.13	-0.06	8.18

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UNITAH_NBU 921-35P PAD
Well: NBU 921-35P1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35P1CS
TVD Reference: GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
MD Reference: GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate ('/100ft)	Build Rate ('/100ft)	Turn Rate ('/100ft)
8,596.00	0.40	334.04	8,581.40	153.55	49.12	159.35	0.52	-0.39	-36.56
8,692.00	0.18	321.15	8,677.39	153.97	48.87	159.72	0.24	-0.23	-13.43
8,787.00	0.18	178.75	8,772.39	153.93	48.78	159.68	0.36	0.00	-149.89
8,882.00	0.53	149.33	8,867.39	153.41	49.01	159.19	0.40	0.37	-30.97
8,977.00	0.97	158.03	8,962.38	152.28	49.54	158.17	0.48	0.46	9.16
9,073.00	1.23	127.40	9,058.37	150.90	50.66	156.98	0.66	0.27	-31.91
9,168.00	1.41	114.96	9,153.34	149.79	52.53	156.17	0.36	0.19	-13.09
9,264.00	1.33	121.18	9,249.31	148.72	54.55	155.43	0.18	-0.08	6.48
9,359.00	1.97	141.99	9,344.27	146.86	56.50	153.90	0.91	0.67	21.91
9,455.00	2.11	132.36	9,440.21	144.37	58.82	151.80	0.39	0.15	-10.03
9,550.00	2.19	138.27	9,535.15	141.83	61.32	149.69	0.25	0.08	6.22
9,645.00	1.93	140.89	9,630.09	139.24	63.54	147.48	0.29	-0.27	2.76
9,741.00	1.76	126.30	9,726.04	137.11	65.75	145.72	0.52	-0.18	-15.20
9,836.00	2.20	136.06	9,820.98	134.94	68.19	143.96	0.58	0.46	10.27
9,932.00	1.90	142.49	9,916.92	132.35	70.44	141.75	0.39	-0.31	6.70
10,022.00	2.43	135.09	10,006.85	129.81	72.69	139.60	0.66	0.59	-8.22
10,123.00	2.73	144.32	10,107.75	126.34	75.61	136.63	0.51	0.30	9.14
10,218.00	2.55	141.42	10,202.65	122.85	78.25	133.60	0.24	-0.19	-3.05
10,314.00	2.37	141.59	10,298.56	119.63	80.81	130.81	0.19	-0.19	0.18
10,409.00	2.46	139.40	10,393.48	116.54	83.36	128.16	0.14	0.09	-2.31
10,505.00	2.37	142.56	10,489.39	113.40	85.90	125.46	0.17	-0.09	3.29
10,599.00	2.43	142.57	10,583.31	110.27	88.30	122.75	0.06	0.06	0.01
10,695.00	2.40	143.18	10,679.23	107.05	90.74	119.95	0.04	-0.03	0.64
10,790.00	2.27	145.16	10,774.15	103.91	93.01	117.20	0.16	-0.14	2.08
10,981.00	2.46	149.24	10,964.98	97.28	97.26	111.33	0.13	0.10	2.14
11,076.00	2.37	148.89	11,059.90	93.85	99.32	108.26	0.10	-0.09	-0.37
11,172.00	1.05	182.45	11,155.86	91.27	100.31	105.87	1.67	-1.38	34.96
11,267.00	1.14	175.52	11,250.84	89.46	100.35	104.08	0.17	0.09	-7.29
11,363.00	1.23	169.01	11,346.82	87.50	100.62	102.19	0.17	0.09	-6.78
11,458.00	1.23	170.07	11,441.80	85.49	100.99	100.26	0.02	0.00	1.12
11,553.00	1.23	198.88	11,536.78	83.52	100.83	98.29	0.64	0.00	30.33
11,649.00	1.23	209.53	11,632.75	81.65	99.99	96.31	0.24	0.00	11.09
11,745.00	1.23	201.80	11,728.73	79.80	99.10	94.34	0.17	0.00	-8.05
11,840.00	1.49	188.53	11,823.71	77.63	98.54	92.12	0.43	0.27	-13.97
11,936.00	1.49	175.17	11,919.67	75.15	98.46	89.66	0.36	0.00	-13.92
12,031.00	1.67	171.30	12,014.64	72.55	98.77	87.14	0.22	0.19	-4.07
12,127.00	1.76	168.75	12,110.59	69.72	99.27	84.42	0.12	0.09	-2.66
12,223.00	1.76	159.70	12,206.55	66.90	100.07	81.75	0.29	0.00	-9.43
12,331.00	1.82	155.16	12,314.50	63.78	101.37	78.88	0.14	0.06	-4.20
12,414.00	2.02	158.99	12,397.45	61.22	102.44	76.52	0.29	0.24	4.61
12,509.00	2.20	157.50	12,492.39	57.97	103.74	73.52	0.20	0.19	-1.57
12,604.00	2.20	157.33	12,587.32	54.61	105.14	70.41	0.01	0.00	-0.18

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UNITAH_NBU 921-35P PAD
Well: NBU 921-35P1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
Well NBU 921-35P1CS

GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)

MD Reference:

GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)

North Reference:

True

Survey Calculation Method:

Minimum Curvature

Database:

EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate ('/100ft)	Build Rate ('/100ft)	Turn Rate ('/100ft)
12,644.00	2.26	159.88	12,627.29	53.16	105.71	69.07	0.29	0.15	6.37
LAST SDI MWD PRODUCTION SURVEY									
12,664.00	2.29	161.10	12,647.27	52.41	105.98	68.37	0.29	0.16	6.12
12,721.00	2.29	161.10	12,704.22	50.26	106.71	66.36	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/S (ft)	+E/W (ft)	
220.00	219.99	1.20	0.86	FIRST WFT MWD SURFACE SURVEY
2,535.00	2,521.51	185.76	29.51	LAST WFT MWD SURFACE SURVEY
2,683.00	2,669.44	184.11	33.76	FIRST SDI MWD PRODUCTION SURVEY
12,644.00	12,627.29	53.16	105.71	LAST SDI MWD PRODUCTION SURVEY
12,721.00	12,704.22	50.26	106.71	SDI PROJECTION TO BIT

Checked By: _____

Approved By: _____

Date: _____



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UNITAH_NBU 921-35P PAD

NBU 921-35P1CS

OH

Design: OH

Survey Report - Geographic

09 August, 2011

Anadarko
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING		Local Co-ordinate Reference:	Well NBU 921-35P1CS					
Project:	UTAH - UTM (feet), NAD27, Zone 12N		TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)					
Site:	UNITAH_NBU 921-35P PAD		MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)					
Well:	NBU 921-35P1CS		North Reference:	True					
Wellbore:	OH		Survey Calculation Method:	Minimum Curvature					
Design:	OH		Database:	EDM5000-RobertS-Local					
Project	UTAH - UTM (feet), NAD27, Zone 12N		System Datum:	Mean Sea Level					
Map System:	Universal Transverse Mercator (US Survey Feet)		System Datum:	Mean Sea Level					
Geo Datum:	NAD 1927 (NADCON CONUS)								
Map Zone:	Zone 12N (114 W to 108 W)								
Site	UNITAH_NBU 921-35P PAD, SECTION 35 T9S R21E								
Site Position:	Northing:	14,524,968.43 usft	Latitude:	39° 59' 14.914 N					
From: Lat/Long	Easting:	2,057,581.88 usft	Longitude:	109° 30' 38.650 W					
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °				
Well	NBU 921-35P1CS, 778' FSL 547' FEL								
Well Position	+N-S	0.00 ft	Northing:	14,524,968.43 usft	Latitude:				
	+E-W	0.00 ft	Easting:	2,057,581.88 usft	Longitude:				
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:				
					5,098.00 ft				
Wellbore	OH								
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)				
	IGRF2010	04/08/11	11.10	65.86	52,338				
Design	OH								
Audit Notes:									
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00				
Vertical Section:	Depth From (TVD) (ft)	+N/S (ft)	+E/W (ft)	Direction (°)					
	0.00	0.00	0.00		9.02				
Survey Program	Date 08/09/11								
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description					
220.00	2,535.00	Survey #1 WFT MWD SURFACE (OH)	MWD	MWD - Standard					
2,683.00	12,721.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1					
Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,524,968.43	2,057,581.88	39° 59' 14.914 N	109° 30' 38.650 W
220.00	0.77	35.63	219.99	1.20	0.86	14,524,969.64	2,057,582.72	39° 59' 14.925 N	109° 30' 38.639 W
FIRST WFT MWD SURFACE SURVEY									
311.00	2.37	7.70	310.96	3.56	1.47	14,524,972.01	2,057,583.29	39° 59' 14.949 N	109° 30' 38.631 W
404.00	3.74	2.57	403.82	8.50	1.86	14,524,976.96	2,057,583.60	39° 59' 14.998 N	109° 30' 38.626 W
500.00	5.25	2.13	499.52	16.02	2.17	14,524,984.48	2,057,583.78	39° 59' 15.072 N	109° 30' 38.622 W
595.00	6.56	4.26	594.02	25.77	2.73	14,524,994.24	2,057,584.18	39° 59' 15.168 N	109° 30' 38.614 W
688.00	7.69	6.63	686.30	37.25	3.84	14,525,005.74	2,057,585.10	39° 59' 15.282 N	109° 30' 38.600 W
783.00	8.94	10.88	780.30	50.81	5.97	14,525,019.33	2,057,587.00	39° 59' 15.416 N	109° 30' 38.573 W

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Well:	NBU 921-35P1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
877.00	9.75	10.51	873.05	65.81	8.80	14,525,034.38	2,057,589.58	39° 59' 15.564 N	109° 30' 38.536 W
972.00	10.56	10.38	966.56	82.28	11.84	14,525,050.90	2,057,592.34	39° 59' 15.727 N	109° 30' 38.497 W
1,067.00	11.50	10.38	1,059.81	100.16	15.11	14,525,068.83	2,057,595.32	39° 59' 15.904 N	109° 30' 38.455 W
1,163.00	10.44	9.33	1,154.05	118.16	18.25	14,525,086.87	2,057,598.15	39° 59' 16.082 N	109° 30' 38.415 W
1,258.00	9.06	5.38	1,247.68	134.10	20.34	14,525,102.85	2,057,599.98	39° 59' 16.239 N	109° 30' 38.388 W
1,353.00	8.13	1.26	1,341.61	148.26	21.19	14,525,117.02	2,057,600.59	39° 59' 16.379 N	109° 30' 38.377 W
1,448.00	6.94	355.38	1,435.79	160.70	20.88	14,525,129.45	2,057,600.07	39° 59' 16.502 N	109° 30' 38.381 W
1,542.00	5.31	345.01	1,529.25	170.56	19.30	14,525,139.29	2,057,598.32	39° 59' 16.600 N	109° 30' 38.402 W
1,638.00	4.19	345.63	1,624.92	178.25	17.28	14,525,146.94	2,057,596.18	39° 59' 16.676 N	109° 30' 38.428 W
1,734.00	3.19	6.63	1,720.73	184.30	16.71	14,525,152.98	2,057,595.51	39° 59' 16.735 N	109° 30' 38.435 W
1,828.00	1.31	40.26	1,814.65	187.72	17.71	14,525,156.42	2,057,596.45	39° 59' 16.769 N	109° 30' 38.422 W
1,923.00	0.88	59.51	1,909.64	188.92	19.04	14,525,157.64	2,057,597.76	39° 59' 16.781 N	109° 30' 38.405 W
2,019.00	0.69	85.51	2,005.63	189.34	20.25	14,525,158.08	2,057,598.97	39° 59' 16.785 N	109° 30' 38.389 W
2,113.00	0.50	95.88	2,099.62	189.34	21.23	14,525,158.10	2,057,599.94	39° 59' 16.785 N	109° 30' 38.377 W
2,209.00	0.75	110.38	2,195.62	189.08	22.23	14,525,157.85	2,057,600.95	39° 59' 16.783 N	109° 30' 38.364 W
2,305.00	1.13	122.88	2,291.60	188.35	23.61	14,525,157.14	2,057,602.34	39° 59' 16.775 N	109° 30' 38.346 W
2,400.00	1.63	112.51	2,386.58	187.32	25.65	14,525,156.15	2,057,604.40	39° 59' 16.765 N	109° 30' 38.320 W
2,495.00	1.81	113.13	2,481.53	186.21	28.28	14,525,155.09	2,057,607.04	39° 59' 16.754 N	109° 30' 38.286 W
2,535.00	1.96	107.65	2,521.51	185.76	29.51	14,525,154.65	2,057,608.28	39° 59' 16.750 N	109° 30' 38.270 W
LAST WFT MWD SURFACE SURVEY									
2,683.00	1.58	115.75	2,669.44	184.11	33.76	14,525,153.07	2,057,612.56	39° 59' 16.733 N	109° 30' 38.216 W
FIRST SDI MWD PRODUCTION SURVEY									
2,778.00	1.67	129.99	2,764.40	182.65	36.00	14,525,151.65	2,057,614.82	39° 59' 16.719 N	109° 30' 38.187 W
2,874.00	1.23	171.48	2,860.37	180.73	37.22	14,525,149.75	2,057,616.08	39° 59' 16.700 N	109° 30' 38.171 W
2,969.00	1.32	187.38	2,955.35	178.64	37.24	14,525,147.66	2,057,616.13	39° 59' 16.679 N	109° 30' 38.171 W
3,064.00	1.67	197.67	3,050.32	176.23	36.67	14,525,145.25	2,057,615.60	39° 59' 16.656 N	109° 30' 38.178 W
3,159.00	1.58	209.00	3,145.28	173.77	35.62	14,525,142.76	2,057,614.59	39° 59' 16.631 N	109° 30' 38.192 W
3,255.00	1.41	199.86	3,241.25	171.50	34.58	14,525,140.48	2,057,613.59	39° 59' 16.609 N	109° 30' 38.205 W
3,350.00	1.49	173.06	3,336.22	169.17	34.33	14,525,138.15	2,057,613.38	39° 59' 16.586 N	109° 30' 38.208 W
3,446.00	1.67	170.42	3,432.18	166.55	34.71	14,525,135.54	2,057,613.80	39° 59' 16.560 N	109° 30' 38.204 W
3,541.00	1.23	142.21	3,527.15	164.38	35.57	14,525,133.38	2,057,614.70	39° 59' 16.538 N	109° 30' 38.193 W
3,636.00	0.18	125.07	3,622.14	163.49	36.31	14,525,132.50	2,057,615.46	39° 59' 16.530 N	109° 30' 38.183 W
3,731.00	0.88	324.50	3,717.14	164.00	36.01	14,525,133.01	2,057,615.15	39° 59' 16.535 N	109° 30' 38.187 W
3,827.00	0.70	292.24	3,813.13	164.82	35.04	14,525,133.81	2,057,614.16	39° 59' 16.543 N	109° 30' 38.199 W
3,923.00	0.62	255.76	3,909.13	164.92	34.00	14,525,133.89	2,057,613.12	39° 59' 16.544 N	109° 30' 38.213 W
4,018.00	0.62	227.99	4,004.12	164.45	33.12	14,525,133.40	2,057,612.24	39° 59' 16.539 N	109° 30' 38.224 W
4,114.00	0.62	326.60	4,100.12	164.53	32.44	14,525,133.48	2,057,611.57	39° 59' 16.540 N	109° 30' 38.233 W
4,208.00	1.49	308.06	4,194.10	165.71	31.20	14,525,134.63	2,057,610.31	39° 59' 16.552 N	109° 30' 38.249 W
4,304.00	1.41	298.30	4,290.07	167.04	29.18	14,525,135.93	2,057,608.26	39° 59' 16.565 N	109° 30' 38.275 W
4,399.00	1.14	276.77	4,385.05	167.71	27.21	14,525,136.56	2,057,606.29	39° 59' 16.571 N	109° 30' 38.300 W
4,495.00	0.71	271.54	4,481.03	167.83	25.67	14,525,136.67	2,057,604.74	39° 59' 16.573 N	109° 30' 38.320 W
4,590.00	0.62	208.57	4,576.03	167.40	24.83	14,525,136.22	2,057,603.91	39° 59' 16.568 N	109° 30' 38.330 W
4,686.00	1.30	207.24	4,672.02	165.97	24.09	14,525,134.78	2,057,603.19	39° 59' 16.554 N	109° 30' 38.340 W
4,781.00	1.14	192.22	4,766.99	164.09	23.39	14,525,132.89	2,057,602.53	39° 59' 16.536 N	109° 30' 38.349 W
4,877.00	0.79	189.41	4,862.98	162.51	23.08	14,525,131.30	2,057,602.25	39° 59' 16.520 N	109° 30' 38.353 W
4,971.00	1.23	174.11	4,956.97	160.86	23.08	14,525,129.65	2,057,602.27	39° 59' 16.504 N	109° 30' 38.353 W
5,065.00	1.23	173.67	5,050.94	158.86	23.30	14,525,127.65	2,057,602.52	39° 59' 16.484 N	109° 30' 38.350 W
5,160.00	1.32	170.95	5,145.92	156.76	23.58	14,525,125.56	2,057,602.84	39° 59' 16.463 N	109° 30' 38.347 W
5,255.00	1.23	187.65	5,240.90	154.67	23.62	14,525,123.47	2,057,602.91	39° 59' 16.442 N	109° 30' 38.346 W
5,351.00	0.88	176.49	5,336.88	152.91	23.52	14,525,121.71	2,057,602.85	39° 59' 16.425 N	109° 30' 38.347 W
5,446.00	0.79	155.39	5,431.87	151.59	23.84	14,525,120.39	2,057,603.19	39° 59' 16.412 N	109° 30' 38.343 W
5,542.00	0.95	144.85	5,527.86	150.34	24.58	14,525,119.15	2,057,603.94	39° 59' 16.400 N	109° 30' 38.334 W
5,637.00	1.10	137.31	5,622.84	149.02	25.65	14,525,117.86	2,057,605.03	39° 59' 16.387 N	109° 30' 38.320 W

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-35P1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Site:	UNITAH_NBU 921-35P PAD	MD Reference:	GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)
Well:	NBU 921-35P1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,733.00	1.65	125.52	5,718.82	147.54	27.40	14,525,116.41	2,057,606.81	39° 59' 16.372 N	109° 30' 38.298 W
5,828.00	1.87	120.81	5,813.77	145.96	29.84	14,525,114.86	2,057,609.28	39° 59' 16.356 N	109° 30' 38.266 W
5,924.00	1.23	139.22	5,909.74	144.37	31.86	14,525,113.31	2,057,611.32	39° 59' 16.341 N	109° 30' 38.240 W
6,019.00	0.70	146.51	6,004.72	143.12	32.85	14,525,112.07	2,057,612.33	39° 59' 16.328 N	109° 30' 38.228 W
6,115.00	0.26	54.32	6,100.72	142.75	33.35	14,525,111.72	2,057,612.84	39° 59' 16.325 N	109° 30' 38.221 W
6,210.00	0.53	26.10	6,195.72	143.28	33.72	14,525,112.24	2,057,613.20	39° 59' 16.330 N	109° 30' 38.216 W
6,306.00	0.62	85.96	6,291.71	143.71	34.43	14,525,112.69	2,057,613.90	39° 59' 16.334 N	109° 30' 38.207 W
6,401.00	0.44	47.73	6,386.71	143.99	35.21	14,525,112.99	2,057,614.68	39° 59' 16.337 N	109° 30' 38.197 W
6,497.00	0.70	26.19	6,482.71	144.77	35.74	14,525,113.77	2,057,615.20	39° 59' 16.345 N	109° 30' 38.190 W
6,592.00	0.63	12.93	6,577.70	145.80	36.12	14,525,114.81	2,057,615.55	39° 59' 16.355 N	109° 30' 38.186 W
6,688.00	0.62	337.59	6,673.69	146.79	36.04	14,525,115.80	2,057,615.46	39° 59' 16.365 N	109° 30' 38.187 W
6,783.00	0.29	276.81	6,768.69	147.29	35.60	14,525,116.29	2,057,615.02	39° 59' 16.370 N	109° 30' 38.192 W
6,879.00	0.05	17.80	6,864.69	147.36	35.37	14,525,116.36	2,057,614.79	39° 59' 16.370 N	109° 30' 38.195 W
6,974.00	0.18	242.14	6,959.69	147.33	35.25	14,525,116.33	2,057,614.67	39° 59' 16.370 N	109° 30' 38.197 W
7,070.00	0.35	216.30	7,055.69	147.03	34.95	14,525,116.02	2,057,614.37	39° 59' 16.367 N	109° 30' 38.201 W
7,165.00	0.62	159.70	7,150.69	146.31	34.95	14,525,115.30	2,057,614.38	39° 59' 16.360 N	109° 30' 38.200 W
7,261.00	0.70	148.27	7,246.68	145.32	35.44	14,525,114.32	2,057,614.89	39° 59' 16.350 N	109° 30' 38.194 W
7,356.00	0.53	108.56	7,341.68	144.69	36.16	14,525,113.70	2,057,615.62	39° 59' 16.344 N	109° 30' 38.185 W
7,451.00	1.41	96.15	7,436.66	144.43	37.74	14,525,113.46	2,057,617.20	39° 59' 16.341 N	109° 30' 38.165 W
7,547.00	1.41	86.92	7,532.63	144.36	40.10	14,525,113.44	2,057,619.56	39° 59' 16.341 N	109° 30' 38.134 W
7,642.00	1.67	96.42	7,627.60	144.27	42.64	14,525,113.39	2,057,622.10	39° 59' 16.340 N	109° 30' 38.102 W
7,737.00	1.94	108.92	7,722.55	143.59	45.54	14,525,112.76	2,057,625.01	39° 59' 16.333 N	109° 30' 38.064 W
7,833.00	1.41	93.25	7,818.51	143.00	48.25	14,525,112.21	2,057,627.74	39° 59' 16.327 N	109° 30' 38.030 W
7,928.00	1.32	23.20	7,913.49	143.94	49.85	14,525,113.18	2,057,629.32	39° 59' 16.336 N	109° 30' 38.009 W
8,023.00	1.58	9.14	8,008.46	146.24	50.49	14,525,115.49	2,057,629.92	39° 59' 16.359 N	109° 30' 38.001 W
8,119.00	1.32	338.47	8,104.43	148.57	50.29	14,525,117.82	2,057,629.68	39° 59' 16.382 N	109° 30' 38.003 W
8,214.00	0.53	313.42	8,199.42	149.89	49.57	14,525,119.13	2,057,628.94	39° 59' 16.395 N	109° 30' 38.013 W
8,310.00	0.27	332.53	8,295.41	150.40	49.15	14,525,119.63	2,057,628.51	39° 59' 16.400 N	109° 30' 38.018 W
8,405.00	0.83	0.92	8,390.41	151.29	49.05	14,525,120.51	2,057,628.40	39° 59' 16.409 N	109° 30' 38.019 W
8,501.00	0.77	8.77	8,486.40	152.62	49.16	14,525,121.85	2,057,628.49	39° 59' 16.422 N	109° 30' 38.018 W
8,596.00	0.40	334.04	8,581.40	153.55	49.12	14,525,122.77	2,057,628.42	39° 59' 16.431 N	109° 30' 38.018 W
8,692.00	0.18	321.15	8,677.39	153.97	48.87	14,525,123.19	2,057,628.17	39° 59' 16.435 N	109° 30' 38.022 W
8,787.00	0.18	178.75	8,777.39	153.93	48.78	14,525,123.15	2,057,628.09	39° 59' 16.435 N	109° 30' 38.023 W
8,882.00	0.53	149.33	8,867.39	153.41	49.01	14,525,122.63	2,057,628.32	39° 59' 16.430 N	109° 30' 38.020 W
8,977.00	0.97	158.03	8,962.38	152.28	49.54	14,525,121.52	2,057,628.86	39° 59' 16.419 N	109° 30' 38.013 W
9,073.00	1.23	127.40	9,058.37	150.90	50.66	14,525,120.16	2,057,630.01	39° 59' 16.405 N	109° 30' 37.999 W
9,168.00	1.41	114.96	9,153.34	149.79	52.53	14,525,119.07	2,057,631.90	39° 59' 16.394 N	109° 30' 37.975 W
9,264.00	1.33	121.18	9,249.31	148.72	54.55	14,525,118.03	2,057,633.94	39° 59' 16.384 N	109° 30' 37.949 W
9,359.00	1.97	141.99	9,344.27	146.86	56.50	14,525,116.21	2,057,635.92	39° 59' 16.365 N	109° 30' 37.924 W
9,455.00	2.11	132.36	9,440.21	144.37	58.82	14,525,113.76	2,057,638.28	39° 59' 16.341 N	109° 30' 37.894 W
9,550.00	2.19	138.27	9,535.15	141.83	61.32	14,525,111.27	2,057,640.83	39° 59' 16.316 N	109° 30' 37.862 W
9,645.00	1.93	140.89	9,630.09	139.24	63.54	14,525,108.71	2,057,643.09	39° 59' 16.290 N	109° 30' 37.833 W
9,741.00	1.76	126.30	9,726.04	137.11	65.75	14,525,106.62	2,057,645.33	39° 59' 16.269 N	109° 30' 37.805 W
9,836.00	2.20	136.06	9,820.98	134.94	68.19	14,525,104.48	2,057,647.81	39° 59' 16.247 N	109° 30' 37.773 W
9,932.00	1.90	142.49	9,916.92	132.35	70.44	14,525,101.93	2,057,650.10	39° 59' 16.222 N	109° 30' 37.745 W
10,022.00	2.43	135.09	10,006.85	129.81	72.69	14,525,099.43	2,057,652.39	39° 59' 16.197 N	109° 30' 37.716 W
10,123.00	2.73	144.32	10,107.75	126.34	75.61	14,525,096.01	2,057,655.37	39° 59' 16.162 N	109° 30' 37.678 W
10,218.00	2.55	141.42	10,202.65	122.85	78.25	14,525,092.57	2,057,658.06	39° 59' 16.128 N	109° 30' 37.644 W
10,314.00	2.37	141.59	10,298.56	119.63	80.81	14,525,089.39	2,057,660.68	39° 59' 16.096 N	109° 30' 37.611 W
10,409.00	2.46	139.40	10,393.48	116.54	83.36	14,525,086.34	2,057,663.28	39° 59' 16.066 N	109° 30' 37.578 W
10,505.00	2.37	142.56	10,489.39	113.40	85.90	14,525,083.24	2,057,665.88	39° 59' 16.034 N	109° 30' 37.546 W
10,599.00	2.43	142.57	10,583.31	110.27	88.30	14,525,080.16	2,057,668.32	39° 59' 16.004 N	109° 30' 37.515 W
10,695.00	2.40	143.18	10,679.23	107.05	90.74	14,525,076.98	2,057,670.82	39° 59' 15.972 N	109° 30' 37.484 W

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UNITAH_NBU 921-35P PAD
Well: NBU 921-35P1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
Well NBU 921-35P1CS

TVD Reference:

GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)

MD Reference:

GL & 5098' & KB 19" @ 5117.00ft (PIONEER 54)

North Reference:

True

Survey Calculation Method:

Minimum Curvature

Database:

EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,790.00	2.27	145.16	10,774.15	103.91	93.01	14,525,073.88	2,057,673.14	39° 59' 15.941 N	109° 30' 37.455 W
10,981.00	2.46	149.24	10,964.98	97.28	97.26	14,525,067.32	2,057,677.50	39° 59' 15.875 N	109° 30' 37.400 W
11,076.00	2.37	148.89	11,059.90	93.85	99.32	14,525,063.92	2,057,679.62	39° 59' 15.841 N	109° 30' 37.373 W
11,172.00	1.05	182.45	11,155.86	91.27	100.31	14,525,061.36	2,057,680.65	39° 59' 15.816 N	109° 30' 37.361 W
11,267.00	1.14	175.52	11,250.84	89.46	100.35	14,525,059.55	2,057,680.72	39° 59' 15.798 N	109° 30' 37.360 W
11,363.00	1.23	169.01	11,346.82	87.50	100.62	14,525,057.59	2,057,681.02	39° 59' 15.778 N	109° 30' 37.357 W
11,458.00	1.23	170.07	11,441.80	85.49	100.99	14,525,055.59	2,057,681.42	39° 59' 15.759 N	109° 30' 37.352 W
11,553.00	1.23	198.88	11,536.78	83.52	100.83	14,525,053.62	2,057,681.30	39° 59' 15.739 N	109° 30' 37.354 W
11,649.00	1.23	209.53	11,632.75	81.65	99.99	14,525,051.74	2,057,680.49	39° 59' 15.721 N	109° 30' 37.365 W
11,745.00	1.23	201.80	11,728.73	79.80	99.10	14,525,049.87	2,057,679.63	39° 59' 15.702 N	109° 30' 37.376 W
11,840.00	1.49	188.53	11,823.71	77.63	98.54	14,525,047.69	2,057,679.11	39° 59' 15.681 N	109° 30' 37.383 W
11,936.00	1.49	175.17	11,919.67	75.15	98.46	14,525,045.21	2,057,679.07	39° 59' 15.656 N	109° 30' 37.384 W
12,031.00	1.67	171.30	12,014.64	72.55	98.77	14,525,042.62	2,057,679.43	39° 59' 15.631 N	109° 30' 37.380 W
12,127.00	1.76	168.75	12,110.59	69.72	99.27	14,525,039.80	2,057,679.97	39° 59' 15.603 N	109° 30' 37.374 W
12,223.00	1.76	159.70	12,206.55	66.90	100.07	14,525,036.98	2,057,680.82	39° 59' 15.575 N	109° 30' 37.364 W
12,331.00	1.82	155.16	12,314.50	63.78	101.37	14,525,033.89	2,057,682.17	39° 59' 15.544 N	109° 30' 37.347 W
12,414.00	2.02	158.99	12,397.45	61.22	102.44	14,525,031.35	2,057,683.29	39° 59' 15.519 N	109° 30' 37.333 W
12,509.00	2.20	157.50	12,492.39	57.97	103.74	14,525,028.13	2,057,684.64	39° 59' 15.487 N	109° 30' 37.317 W
12,604.00	2.20	157.33	12,587.32	54.61	105.14	14,525,024.78	2,057,686.10	39° 59' 15.453 N	109° 30' 37.299 W
12,644.00	2.26	159.88	12,627.29	53.16	105.71	14,525,023.34	2,057,686.69	39° 59' 15.439 N	109° 30' 37.291 W
LAST SDI MWD PRODUCTION SURVEY									
12,664.00	2.29	161.10	12,647.27	52.41	105.98	14,525,022.60	2,057,686.96	39° 59' 15.432 N	109° 30' 37.288 W
12,721.00	2.29	161.10	12,704.22	50.26	106.71	14,525,020.46	2,057,687.74	39° 59' 15.410 N	109° 30' 37.278 W

SDI PROJECTION TO BIT

Design Annotations									
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates				Comment			
		+N-S (ft)	+E-W (ft)						
220.00	219.99	1.20		0.86		FIRST WFT MWD SURFACE SURVEY			
2,535.00	2,521.51	185.76		29.51		LAST WFT MWD SURFACE SURVEY			
2,683.00	2,669.44	184.11		33.76		FIRST SDI MWD PRODUCTION SURVEY			
12,644.00	12,627.29	53.16		105.71		LAST SDI MWD PRODUCTION SURVEY			
12,721.00	12,704.22	50.26		106.71		SDI PROJECTION TO BIT			

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 921-35P1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047513810000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		7. UNIT or CA AGREEMENT NAME: 720 929-65NATURAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0778 FSL 0547 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		COUNTY: UINTAH STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/5/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: _____
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The Operator requests to plug back and abandon the existing Mancos perforations, and recomplete the subject well in the Mesaverde formation. Please see attached procedure for details. Thank you.			
Approved by the Utah Division of Oil, Gas and Mining			
Date: <u>March 13, 2012</u> By: <u>Dak Dunt</u>			
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 3/5/2012	

Greater Natural Buttes Unit



NBU 921-35P1CS P&A MANCOS AND RE-COMPLETE MESAVERDE PROCEDURE

**DATE: 1/23/12
AFE#:
API#: 4304751381
USER ID: OOT937 (Frac Invoices Only)**

COMPLETIONS ENGINEER: Zachary Garrity, Denver, CO
(720)-929-6180 (Office)
(406)-781-6427 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: **NBU 921-35P1CS**
Location: **SW NE SE SE Sec 35 T9S R21E**
LAT: 39.987441 **LONG:** -109.511422 **COORDINATE:** NAD83 (*Surface Location*)
Uintah County, UT
Date: **1/23/12**

ELEVATIONS: 5098' GL 5117' KB *Frac Registry TVD:*

TOTAL DEPTH: 12721' **PBTD:** 12671'
SURFACE CASING: 9 5/8", 40# J-55 LT&C @ 2552'
INTERMEDIATE CASING: 7", 26#, P-110 BT&C @ 10062'
PRODUCTION LINER: 4 1/2", 11.6#, P-110 BT&C @ 9805 - 12719'

Marker Joint **4624-4635, 7288-7300, 9813-9839, 10805-10826, and 12357-12378'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
7" 26# P-110	9,960	6,210	6.151"	0.0375	1.6070
4 1/2" 11.6# P-110	10,691	7580	3.875"	0.0155	0.6528
2 3/8" by 7" Annulus				0.0328	1.4078
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1420' Green River Top
 1767' Bird's Nest Top
 2230' Mahogany Top
 4690' Wasatch Top
 7362' Mesaverde Top

BOTTOMS:

7362' Wasatch Bottom
 12721' Mesaverde Bottom (TD)

T.O.C. @ 1050'

**Based on latest interpretation of CBL

GENERAL:

- A minimum of **16** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Schlumbergers Induction-Density-Neutron log dated 7/19/2011
- **2** fracturing stages required for coverage.
- Procedure calls for **2** CBP's (**1-8000 and 1-10,000** psi) and **1** CIBP
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.

- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 TLC sand, **Slickwater frac**.
- Maximum surface pressure **9000** psi.
- **If casing pressure test fails.** MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation (specific details on remediation will be provided in post-job-report). Re-pressure test to **1000 and 3500** psi for 15 minutes each and to **9000** psi for 30 minutes.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- **TIGHT SPACING ON STAGE 1; OVERFLUSH BY 5 BBLS**
- Originally completed on **11/9/2011**
- An estimated 16 sacks Class "G" cement needed for procedure
- **This work will require a 7" BOP Stack**

Existing Perforations:

Stage	Zones	Perforations		SPF	Holes
		Top, ft	Bottom, ft		
1	MANCOS	12256	12257	4	12
	MANCOS	12349	12352	4	12
	MANCOS	12470	12473	4	12
	# of Perfs/stage				36
2	MANCOS	10843	10853	3	30
	MANCOS	10944	10948	3	12
	# of Perfs/stage				42
	Totals				78

Relevant History:

11/9/2011 – Original completion to the Mancos formation

H₂S History:

No recored H₂S production

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. **PLUG #1, ISOLATE AND ABONDON MANCOS PERFORATIONS (10843'-12473'):** RIH with a 4 1/2" CIBP. Set @ ~10,793'. Release CIBP, PUH 10', break circulation with fresh water. Displace a minimum of 16 sacks / 3.3 BBL/ 18.3 CUFT. On top of the plug. PUH above TOC (~10,593') and reverse circulate with treated fresh water.
3. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 9000 psi for 30 minutes; if pressure test fails contact Denver engineer and see notes. As per standard operating procedure install steel blowdown line to reserve pit from 7" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
4. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
LOWER MESAVERDE	10229	10230	3	3
LOWER MESAVERDE	10248	10249	3	3
LOWER MESAVERDE	10300	10302	3	6
LOWER MESAVERDE	10314	10316	3	6
LOWER MESAVERDE	10441	10443	3	6

5. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~10229' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

NOTE: STAGE 1 PUMP ALL 30/50 TLC SAND

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

6. **Set 10,000 psi CBP** at ~10,219'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
LOWER MESAVERDE	10123	10124	3	3
LOWER MESAVERDE	10137	10138	3	3
LOWER MESAVERDE	10151	10153	3	6
LOWER MESAVERDE	10168	10169	3	3
LOWER MESAVERDE	10181	10182	3	3
LOWER MESAVERDE	10191	10192	3	3
LOWER MESAVERDE	10200	10202	3	6

7. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~10123' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: STAGE 2 PUMP ALL 30/50 TLC SAND

8. Set 8000 psi CBP at~10,073'.

9. ND Frac Valves, NU and Test BOPs.

10. TIH with 3 7/8" bit, pump off sub, SN and tubing.
11. Drill plugs and clean out to PBTD. Shear off bit and land tubing at $\pm 10093'$ unless indicated otherwise by the well's behavior. The well will be commingled at this time.
12. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
13. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

For design questions, please call

**Zachary Garrity, Denver, CO
(720)-929-6180 (Office)
(406)-781-6427 (Cell)**

For field implementation questions, please call

**Jeff Samuels, Vernal, UT
(435)-781-7046 (Office)**

NOTES:

TIGHT SPACING ON STAGE 1; OVERFLUSH BY 5 BBLS

If using any chemicals for pickling tubing or H₂S Scavenging, have MSDS for all chemicals prior to starting work

Verify that the Braden head valve is locked OPEN.

This work will require a 7" BOP Stack

Name NBU 921-35P1CS
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	LOWER MESAVERDE	10229	10230	3	3		10216	to	10218
	LOWER MESAVERDE	10248	10249	3	3		10227	to	10230
	LOWER MESAVERDE	10300	10302	3	6		10239	to	10242
	LOWER MESAVERDE	10314	10316	3	6		10246	to	10258
	LOWER MESAVERDE	10441	10443	3	6		10286	to	10291
	# of Perfs/stage				24		CBP DEPTH	10,219	
2	LOWER MESAVERDE	10123	10124	3	3		10104	to	10109
	LOWER MESAVERDE	10137	10138	3	3		10122	to	10132
	LOWER MESAVERDE	10151	10153	3	6		10134	to	10140
	LOWER MESAVERDE	10168	10169	3	3		10150	to	10155
	LOWER MESAVERDE	10181	10182	3	3		10167	to	10170
	LOWER MESAVERDE	10191	10192	3	3		10178	to	10182
	LOWER MESAVERDE	10200	10202	3	6		10200	to	10205
	# of Perfs/stage				27		CBP DEPTH	10,073	
	Totals				51				

Fracturing Schedules				Casing Size Recomplete? Pad? ACTS?	4.5	0	Enter Number of swabbing days here for recompletes						
Name	NBU 921-35P1CS	Copy to new book			N	Production Log	0	Enter 1 if running a Production Log					
Slickwater Frac					N	DFIT	0	Enter Number of DFITs					
Stage	Zone	Perfs	Rate		Fluid	Initial	Final	Fluid	Volume	Cum Vol			
		Top, ft.	Bot, ft.	SPF	Holes	BPM	Type	ppg	gals	gals			
1	LOWER MESAVERDE	10229	10230	3	3	Varied	Pre-Pad & Pump-in test		Slickwater	16,033	16,033		
	LOWER MESAVERDE	10248	10249	3	3	0	ISIP and 5 min ISIP		Slickwater	19,080	35,113		
	LOWER MESAVERDE	10300	10302	3	6	50	Slickwater Pad	0.25	Slickwater	22,260	57,373		
	LOWER MESAVERDE	10314	10316	3	6	50	Slickwater Ramp	0.94	Slickwater	0	57,373		
	LOWER MESAVERDE	10441	10443	3	6	50	SW Sweep	0	Slickwater	15,900	73,273		
	LOWER MESAVERDE					50	Slickwater Ramp	1.13	Slickwater	379	1,745		
	LOWER MESAVERDE					50	SW Sweep	0	Slickwater	0	1,745		
	LOWER MESAVERDE					50	Slickwater Ramp	0.38	Slickwater	0	1,745		
	LOWER MESAVERDE					50	SW Sweep	1.13	Slickwater	0	1,745		
	LOWER MESAVERDE					50	Slickwater Ramp	1.13	Slickwater	6,360	79,633		
	LOWER MESAVERDE					50	Flush (4-1/2)	1.5	Slickwater	151	1,896		
	LOWER MESAVERDE						ISDP and 5 min ISDP		16,033	95,667	2,278		
	LOWER MESAVERDE								95,667				
	LOWER MESAVERDE								63,600				
	LOWER MESAVERDE												
	LOWER MESAVERDE												
	LOWER MESAVERDE												
		# of Perfs/stage			24		34.9	<< Above pump time (min)					
2	LOWER MESAVERDE	10123	10124	3	3	Varied	Pump-in test		Slickwater	0	0		
	LOWER MESAVERDE	10137	10138	3	3	0	ISIP and 5 min ISIP		Slickwater	49,290	49,290		
	LOWER MESAVERDE	10151	10153	3	6	50	Slickwater Pad	0.25	Slickwater	57,505	106,795		
	LOWER MESAVERDE	10168	10169	3	3	50	Slickwater Ramp	0.94	Slickwater	1,174	1,174		
	LOWER MESAVERDE	10181	10182	3	3	50	SW Sweep	0	Slickwater	0	2,543		
	LOWER MESAVERDE	10191	10192	3	3	50	Slickwater Ramp	0.94	Slickwater	41,075	147,870		
	LOWER MESAVERDE	10200	10202	3	6	50	SW Sweep	0	Slickwater	978	3,521		
	LOWER MESAVERDE					50	Slickwater Ramp	0.38	Slickwater	0	3,521		
	LOWER MESAVERDE					50	Flush (4-1/2)	1.13	Slickwater	16,430	164,300		
	LOWER MESAVERDE						ISDP and 5 min ISDP		15,964	391	3,912		
	LOWER MESAVERDE								180,264	380	4,292		
	LOWER MESAVERDE								180,264				
	LOWER MESAVERDE								164,300				
	LOWER MESAVERDE												
	LOWER MESAVERDE												
	LOWER MESAVERDE												
		# of Perfs/stage			27		70.4	<< Above pump time (min)					
	Totals				51			Total Fluid	275,931 gals 6,570 bbls	6,570 bbls	Total Sand	136,028	
							1.8			14.6 tanks		Total Scale Inhib. = 476	

Total Stages 2 stage
Last Stage Flush 15,964 qals

Service Company Supplied Chemicals - Job Total

Service Company	Supplied Chemicals	Job Totals
Friction Reducer	130 gals @	0.5 GPT
Surfactant	260 gals @	1.0 GPT
Clay Stabilizer	130 gals @	0.5 GPT
15% HCl	500 gals @	250 gal/stg
Iron Control for acid	3 gals @	5.0 GPT of acid
Surfactant for acid	1 gals @	2.0 GPT of acid
Corrosion Inhibitor for acid	2 gals @	4.0 GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	476	gals pumped per schedule above
Biocide	130	gals @ 0.5 GPT

Acid Pickling and H₂S Procedures (If Required)

**PROCEDURE FOR PUMPING ACID DOWN TBG

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H₂S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H₂S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H₂S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H₂S NOW AS POOH W/ TUBING.

** PROCEDURE FOR PUMPING H₂S SCAVENGER WITHOUT ACID

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H₂S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H₂S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H₂S.
4. FLUSH TUBING AND CASING PUSHING H₂S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H₂S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Key Contact information

Completion Engineer

Zachary Garrity: 406-781-6427, 720-929-6180

Production Engineer

Jordan Portillo: 435/781-9785, 435/828-6221

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

AMENDED REPORT
 (highlight changes)

FORM 8

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 22582

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____					7. UNIT or CA AGREEMENT NAME UTU63047A
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER RECOMPLETION					8. WELL NAME and NUMBER: NBU 921-35P1CS
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.					9. API NUMBER: 4304751381
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217					10 FIELD AND POOL, OR WILDCAT NATURAL BUTTES
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SESE 778 FSL 547 FEL S35,T9S,R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: SESE 904 FSL 471 FEL S35,T9S,R21E AT TOTAL DEPTH: SESE 828 FSL 440FEL S35,T9S,R21E					11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 35 9S 21E S
					12. COUNTY UINTAH
					13. STATE UTAH
14. DATE SPUNDED: 4/23/2011	15. DATE T.D. REACHED: 7/19/2011	16. DATE COMPLETED: 4/13/2012	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5098 GL
18. TOTAL DEPTH: MD 12,721 TVD 12,704	19. PLUG BACK T.D.: MD 12,672 TVD 12,655	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD 10,771 PLUG SET: TVD		
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) See Original Completion Report for complete list.					23. WAS WELL CORED? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (Submit analysis) WAS DST RUN? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (Submit report) DIRECTIONAL SURVEY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40			28		
12 1/4"	9 5/8" J-55	40#	0	2,552			705		0
8.5"	7" P-110	11.6#	0	10,062			1,168		4055
6.125"	7" P-110	11.6#	9,805	9,831					
6.125"	7" P-110	11.6#	9,805	12,719			265		9845

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	10,102							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	10,123	10,443			10,123	10,443	0.36	51 Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/> RECEIVED

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL	JUN 12 2012
10,123-10,443	PUMP 6570 BBLS SLICK H2O & 136,419 LBS 30/50 OTTAWA SAND	DIV. OF OIL, GAS & MINING
	2 STAGES	

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS
- SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

- GEOLOGIC REPORT
- CORE ANALYSIS
- DST REPORT
- OTHER: _____
- DIRECTIONAL SURVEY

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)											
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	→	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
4/13/2012	5/10/2012			24		0		0	1,349	0	FLOWING
20/64	0	0									PROD

INTERVAL B (As shown in Item #26)

INTERVAL B (As shown in Item #26)											
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	→	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

INTERVAL C (As shown in Item #26)											
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	→	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

INTERVAL D (As shown in Item #26)											
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	→	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

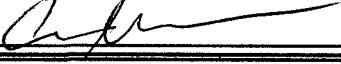
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1,420 1,767 2,230 4,690 7,362

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLERTITLE REGULATORY ANALYSTSIGNATURE DATE 6/16/12

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
Fax: 801-359-3940

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-35P1CS	Wellbore No.	OH
Well Name	NBU 921-35P1CS	Wellbore Name	NBU 921-35P1CS
Report No.	1	Report Date	4/11/2012
Project	UTAH-UINTAH	Site	NBU 921-35P PAD
Rig Name/No.	ROYAL WELL SERVICE 2/2	Event	RECOMPL/RESERVEADD
Start Date	4/11/2012	End Date	4/13/2012
Spud Date	4/30/2011	Active Datum	RKB @5,117.00usft (above Mean Sea Level)
UWI	SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method			

1.4 Initial Conditions

1.5 Summary

Fluid Type		Fluid Density		Gross Interval	10,123.0 (usft)-10,443.0 (u	Start Date/Time	4/11/2012 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	12	End Date/Time	4/11/2012 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	51	Net Perforation Interval	17.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.00 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

2 Intervals

2.1 Perforated Interval

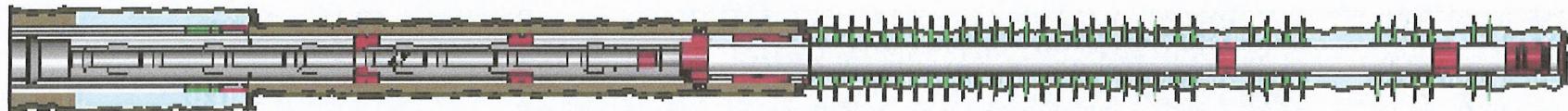
Date	Formation/Reservoir	CCL@(usft)	CCL-TS(usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/11/2012 12:00AM	MESAVERDE/	10,123.0	10,124.0	3.00		0.360 EXP/		3.375	90.00			23.00 PRODUCTIO		N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/11/2012	MESAVERDE/ 12:00AM			10,137.0	10,138.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,151.0	10,153.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,168.0	10,169.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,181.0	10,182.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,191.0	10,192.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,200.0	10,202.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,229.0	10,230.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,248.0	10,249.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,300.0	10,302.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,314.0	10,316.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/11/2012	MESAVERDE/ 12:00AM			10,441.0	10,443.0	3.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION											
Operation Summary Report											
Well: NBU 921-35P1CS			Spud Conductor: 4/23/2011			Spud Date: 4/30/2011					
Project: UTAH-UINTAH			Site: NBU 921-35P PAD			Rig Name No: ROYAL WELL SERVICE 2/2					
Event: RECOMPL/RESERERVEADD			Start Date: 4/11/2012		End Date: 4/13/2012						
Active Datum: RKB @5,117.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0								
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
4/11/2012	6:45 - 7:00	0.25	COMP	48		P		HSM, JSA			
	7:00 - 9:00	2.00	COMP	30	A	P		MIRU, ND WH, NP BOP'S, RU FLOOR & TBG EQUIP			
	9:00 - 11:30	2.50	COMP	31	I	P		POOH W/ 302 JTS 2-38 L-80 TBG STAND BACK IN DERRICK			
	11:30 - 15:00	3.50	COMP	34	I	P		MIRU J-W WIRELINE, RIH W/ 10K CIBP SET @10771', POOH P/U CEMENT BAILOR, RIH BAIL 2 SACKS OF CEMENT IN 2 RUNS, RD WIRELINE			
	15:00 - 16:30	1.50	COMP	30	F	P		ND BOP'S, NU FRAC VALVES, FILL CSG W/ T-MAC			
	16:30 - 19:00	2.50	COMP	33	C	P		TEST @ 1000 PSI FOR 15 MINS LOST 47 PSI, TEST @ 3500 PSI FOR 15 MINS LOST 22.5 PSI, TEST @ 9000 PSI FOR 30 MINS LOST 60 PSI			
4/12/2012	6:45 - 17:00	10.25	COMP	48		P		HSM, JSA W/ SUPERIOR			
								PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS DESIGN			
								FRAC STG 1)WHP 620 PSI, BRK 3810 PSI @ 6.7 BPM. ISIP 3,258 PSI, FG .75.			
								CALC HOLES OPEN @ 55.8 BPM @ 2049 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)			
								ISIP 3637 PSI, FG .79, NPI 379 PSI.			
								MP 5585 PSI, MR 57.1 BPM, AP 5172 PSI, AR 65 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL			
								PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,219' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW			
								FRAC STG 2)WHP 3000 PSI, BRK 3547 PSI @ 4.8 BPM. ISIP 3,090 PSI, FG .74.			
								CALC HOLES OPEN @ 56.1 BPM @ 1,911 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)			
								ISIP 3,663 PSI, FG .79, NPI 573 PSI.			
								MP 6,105 PSI, MR 56.5 BPM, AP 5,066 PSI, AR 56.1 BPM			
								PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL			
								(KILL PLUG) SET @10073'			
								RDMO J-W WIRELINE & SUPERIOR.TOTAL 30/40 TLC SAND 136419 LBS% TOTAL FLUID PUMPED 6570 BBLS			
								ND FRAC VALVES NU BOP'S			
								SDFN			

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35P1CS	Spud Conductor: 4/23/2011				Spud Date: 4/30/2011			
Project: UTAH-UINTAH	Site: NBU 921-35P PAD				Rig Name No: ROYAL WELL SERVICE 2/2			
Event: RECOMPL/RESERERVEADD	Start Date: 4/11/2012				End Date: 4/13/2012			
Active Datum: RKB @5,117.00usft (above Mean Sea Level)					UWI: SE/SE/0/9/S/21/E/35/0/0/26/PM/S/778/E/0/547/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/13/2012	6:45 - 7:00	0.25	COMP	48		P		HSM, JSA
	7:00 - 16:00	9.00	COMP	31	I	P		TIH TAG KILL PLUG @ 10073', PT BOP'S TO 3000 PSI FOR 15 MINS LOST 0 LBS, RU PWR SWVL D/O 1ST PLUG IN 6 MINS, 900 # KICK, 250 ON CSG
								C/O 17' SAND, D/O 2ND PLUG IN 9 MINS, 900 # KICK, 1000 PSI ON CSG
								PBTD @ 10,771', BTM PERF @ 10,443', RIH TAG @ 10,488', C/O TO 10,760', 317' PAST BTM PERF W/ 339 JTS 2 3/8" L-80 TBG, LD 21 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 318 JTS 2 3/8" L-80, EOT 10,103.14'.
								RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 2,200 PSI, LET BIT FALL FOR 20 MIN.
								TURN OVER TO FLOW BACK CREW, RDMO.
								KB= 19' 71/16" WEATHERFORD HANGER= .83' TBG DELIVERED 45 JTS 318 JTS 2 3/8" L-80 = 10,081.18' TBG USED 16 JTS POBS= 2.20' TBG RETURNED 29 JTS EOT @10,102.10'
								TWTR= 6,570 BBLS TWR= 1,500 BBLS TWLTR= 5,070 BBLS
	15:45 -		COMP	50				WELL TURNED TO SALES AT 1545 HR ON 4/13/2012 - 894 MCFD, 1680 BWPD, FCP 2500#, FTP 2375#, CK 18/64
5/10/2012	7:00 -			50				WELL IP'D ON 5/10/12 - 1349 MCFD, 0 BOPD, 0 BWPD, CP 0#, FTP 0#, CK 20/64", LP 100#, 24 HRS

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

AMENDED REPORT
 (highlight changes)

FORM 8

5. LEASE DESIGNATION AND SERIAL NUMBER:
 ML 22582

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
 UTU63047A

8. WELL NAME and NUMBER:
 NBU 921-35P1CS

9. API NUMBER:
 4304751381

10 FIELD AND POOL, OR WILDCAT
 NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
 MERIDIAN:
 SESE 35 9S 21E S

12. COUNTY UNTAH 13. STATE UTAH

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						
b. TYPE OF WORK:		NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER RECOMPLETION						
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.								
3. ADDRESS OF OPERATOR:		P.O.BOX 173779	CITY DENVER	STATE CO	ZIP 80217	PHONE NUMBER:	(720) 929-6304	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SESE 778 FSL 547 FEL S35,T9S,R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: SESE 904 FSL 471 FEL S35,T9S,R21E AT TOTAL DEPTH: SESE 828 FSL 440FEL S35,T9S,R21E								
14. DATE SPUPPED: 4/23/2011	15. DATE T.D. REACHED: 7/19/2011	16. DATE COMPLETED: 4/13/2012	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5098 GL			
18. TOTAL DEPTH: MD 12,721 TVD 12,704	19. PLUG BACK T.D.: MD 12,672 TVD 12,655	20. IF MULTIPLE COMPLETIONS, HOW MANY? *			21. DEPTH BRIDGE PLUG SET: MD 10,771 TVD			
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) See Original Completion Report for complete list.				23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)				

24. CASING AND LINER RECORD (Report all strings set in well)									
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40			28		
12 1/4"	9 5/8" J-55	40#	0	2,552			705		0
8.5"	7" P-110	11.6#	0	10,062			1,168		4055
6.125"	7" P-110	11.6#	9,805	9,831					
6.125"	7" P-110	11.6#	9,805	12,719			265		9845

25. TUBING RECORD									
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8"	10,102								

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESAVERDE	10,123	10,443			10,123	10,443	0.36	51	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>	
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>	
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>	

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.		AMOUNT AND TYPE OF MATERIAL					
DEPTH INTERVAL		PUMP 6570 BBLS SLICK H2O & 136,419 LBS 30/50 OTTAWA SAND					
10,123-10,443		2 STAGES					

29. ENCLOSED ATTACHMENTS:				30. WELL STATUS:			
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS		<input type="checkbox"/> GEOLOGIC REPORT		<input type="checkbox"/> DST REPORT		<input type="checkbox"/> DIRECTIONAL SURVEY	
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION		<input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> OTHER: _____		PROD	

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 4/13/2012	TEST DATE: 5/10/2012	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,349	WATER - BBL: 0	PROD. METHOD: FLOWING			
CHOKE SIZE: 20/64	TBG. PRESS. 0	CSG. PRESS. 0	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,349	WATER - BBL: 0	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

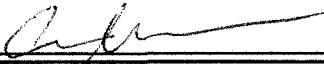
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1,420 1,767 2,230 4,690 7,362

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLERTITLE REGULATORY ANALYSTSIGNATURE DATE 5/10/12

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

C
FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
 Address: P.O. Box 173779
city DENVER
state CO zip 80217

Operator Account Number: N 2995
 Phone Number: (720) 929-6857

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County					
4304751381	NBU 921-35P1CS		SESE	35	9S	21E	UINTAH					
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date						
E	18241	2900	4/23/2011			4/13/12						
Comments: This well is completed in the Wasatch and Mesaverde formations.												
<i>Add to NBU</i> <u>1/31/13</u>												

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County					
4304752067	BONANZA 1023-5L1DS		NESW	5	10S	23E	UINTAH					
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date						
E	18575	18519	6/8/2012			12/13/12						
Comments: This well is completed in the Wasatch and Mesaverde formations.												
<i>WSMVD</i> <u>1/31/13</u>												

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County					
4304752068	BONANZA 1023-5L4AS		NESW	5	10S	23E	UINTAH					
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date						
E	18519	18519	6/9/2012			12/14/12						
Comments: This well is completed in the Wasatch and Mesaverde formations.												
<i>WSMVD</i> <u>1/31/13</u>												

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

JAN 31 2013

Lindsey Frazier

Name (Please Print)

Lindsey Frazier

Signature

REGULATORY ANALYST II

1/31/2013

Title

Date